Wallops Internal Publication
WFC-221-81-104

Field Measurement Support Office

Meteorological and Constituent Data for January and February 1981

July 1, 1981

NASA
National Aeronautics and
Space Administration

Wallops Flight Center
Wallops Island, Virginia 23337
AC 804 824-3411

PREFACE

This book contains data acquired by Wallops Flight Center's Field Measurement Support Office(FMSO) from Wallops Island, Virginia;Poker Flat, Alaska; Natal, Brazil;and Primrose Lake, Canada. The data is processed at Wallops Flight Center. No correction factor is applied to the ECC values to bring them into agreement with the Dobson readings. This leaves the user free to make corrections if desired. All ECC data published by FMSO is transmitted to the World Ozone Data Center in Canada where a correction factor is applied. The data is then published by the Atmospheric Environment Service, Department of the Environment in cooperation with the World Meteorological Organization.

An explanation of the headings on the first page of each ECC printout is listed on the next page. The Dobson spectrophotometer at Wallops is located approximately one mile from the ECC launch site and at Natal the distance is about five miles.

The Dobson value shown on the Primrose Lake ECC ozone soundings is an interpolated overburden using Ft. Churchill and Stony Plain (Edmonton) data when that information is available. Primrose Lake lies approximately on a line between Ft. Churchill and Stony Plain, 120 miles east of Stony Plain and 480 miles west of Ft. Churchill.

This approach to deriving Dobson values is considered to provide a more realistic total overburden value for Primrose Lake. It was suggested by the Atmospheric Environment Service. Experimental Studies Division , Fisheries and Environment, Canada.

Whenever other types of total ozone overburden measuring devices are used in support of ECC ozonesondes, that data will be so indicated.

ECC PRINTOUT HEADINGS

Calibration Data

OO3 - Ozone Reference Ordinate Value

OIZ - Zero Ordinate Value

OZC - Ozone Calibrate Ordinate Value

IO - Background Current Due to Oxygen (μA)

PS - Sonde Air Flow (sec/100cc)

TBOX CAL - Temperature of Ozone Pump

BASE CAL - Temperature Calibration

Profile Data	Units
INTEGRATED OZONE	Atmospheric Centimeters
RESIDUAL OZONE	Atmospheric Centimeters
TOTAL OZONE	Atmospheric Centimeters

Column Headings	Units or Explanation of Measurements
Time	Minutes
Altitude	Geopotential Meters
Ozone	Micromillibars
Total Ozone	Atmospheric Centimeters
Ozone Gamma	Ozone density expressed in micrograms/m^3
Ozone Mixing Ratio	Micrograms of ozone per gram of air
Pressure	Millibars
Log of Total Pressure	
Radiosonde Temperature	Degrees Kelvin
Potential Temperature	Pressure-weighted temperature
Virtual Temperature	Includes humidity. Should agree with radiosonde temperature if there is no humidity.
Humidity	Percent
Dew Point	Degrees Kelvin
Specific Humidity	Mass of water vapor per mass of air
Wind Speed	Meters per second
Wind Direction	Indicates direction from which wind is blowing
North-South Wind Speed	Meters per second
East-West Wind Speed	Meters per second

- Additional Dobson Information Code -

Observation Type

0 - On direct sun
1 - On direct moon
2 - On blue zenith sky
3 - On zenith cloud (uniform stratified layer of small opacity)
4 - On zenith cloud (uniform or moderately variable layer of medium opacity)
5 - On zenith cloud (uniform or moderately variable layer of large opacity)
6 - On zenith cloud (highly variable opacity, with or without precip.)
7 - On zenith cloud (fog)
8 - Other, as specified

Wavelength

0 - Wavelengths AD, ordinary setting
1 - Wavelengths BD, ordinary setting
2 - Wavelengths CD, ordinary setting
3 - Wavelengths CC, ordinary setting
4 - Wavelengths AD, focussed image
5 - Wavelengths BD, focussed image
6 - Wavelengths CD, focussed image
7 - Wavelengths C, focussed image

Air Mass Value expressed as (μ)

GMT: Observation Time

CONTENTS

Included in this publication are ECC balloon data consisting of a plot showing the mixing ratio of ozone partial pressure in micromillibars (solid line) and temperature in degrees Centigrade (dashed line) versus pressure altitude in millibars accompanied by a tabulation of meteorological and constituent data.

The total overburden was acquired by Dobson Spectrophotometer #72 at Wallops Flight Center, Virginia, #102 at Stony Plain (Primrose Lake), Canada, #60 at Ft. Churchill, Canada; and #93 at Natal, Brazil.

SITE	ECC NO.	DATE	GMT
Wallops Island, Va.	3A1508	1/07/81	1605
"	3A1510	1/16/81	1456
"	3A1499	1/22/81	1621
"	3A1512	1/26/81	1851
"	3A1514	1/28/81	1504
"	3A1515	1/30/81	1631
"	3A1511	2/13/81	1449
"	3A1513	2/19/81	1555
"	3A1518	2/20/81	1849
"	3A1557	2/26/81	1723
"	3A1519	2/26/81	1910
"	3A1552	2/27/81	1731
"	3A1554	2/27/81	2200
Poker Flat	3A1488	1/06/81	1910
"	3A1491	1/12/81	1910
"	3A1492	1/23/81	1900
"	3A1493	2/09/81	1853
"	3A1489	2/20/81	1855
"	3A1490	2/25/81	1900
Primrose Lake	3A1152	1/06/81	1652
"	3A1157	1/22/81	1535
"	3A1170	1/28/81	1731
"	3A1521	2/02/81	1515
"	3A1520	2/19/81	1825
"	3A1522	2/25/81	1800
Natal	3A1108	1/16/81	1248

Inquiries should be directed to Rebecca Berry at 804-824-3411, ext. 229, (FTS 928-5229) or Harry Bloxom at 804-824-3411, ext. 311 (FTS 928-5311).

STATION WALLOPS IS LAUNCH DATE 10781 LAUNCH TIME 1605 GMT ECC SONDE 3A1508X

SURFACE CONDITIONS						
PRESS	1005.1 MB	OO3 = 27.8	TBOX CAL =	30.0 C	AT	73.3 ORD
TEMP	276.0 K	OIZ = 27.5	BASE CAL =	30.0 C	AT	73.1 ORD
HUMY	81.0 %	OZC = 57.2	HUMIDITY =	60.9 %	AT	46.0 ORD
		IO = 0.053				
		PS = 30.1				

	PROFILE	DOBSON
INTEGRATED OZONE	0.29234	
RESIDUAL OZONE	0.03334	
TOTAL OZONE	0.32568	0.34100

ADDITIONAL DOBSON INFORMATION

Dobson	0.332	0.341
Observational Type	5	4
Wavelength	0	0
Air Mass	2.124	1.989
GMT	1600	1708

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	16.4	0.	34.4	0.03	1005.1	3.0022	275.0	274.6	275.54	78.9	271.7	0.0034	7.0	300.0	-3.5	6.1
0.2	45	16.4	0.00007	34.4	0.03	1000.0	3.0000	274.8	274.8	275.38	83.5	272.2	0.0037	7.5	303.0	-4.1	6.3
1.0	175	16.4	0.00027	34.5	0.03	984.0	2.9930	274.2	275.4	274.84	98.4	273.9	0.0041	9.4	310.0	-6.0	7.2
2.0	364	17.0	0.00059	36.1	0.03	961.0	2.9827	272.2	275.4	272.86	100.0	272.2	0.0037	8.7	307.5	-5.3	6.9
3.0	582	19.3	0.00098	41.1	0.03	935.0	2.9706	270.7	275.9	271.24	100.0	270.7	0.0034	9.9	307.4	-6.0	7.9
4.0	805	24.4	0.00147	52.1	0.04	909.0	2.9586	270.7	278.2	271.10	73.2	266.5	0.0025	11.0	305.9	-6.4	8.9
4.3	883	24.0	0.00165	51.3	0.04	900.0	2.9542	270.6	278.8	270.98	69.0	265.6	0.0023	11.3	304.8	-6.5	9.3
5.0	1053	23.2	0.00205	49.5	0.04	881.0	2.9450	270.4	280.3	270.71	60.1	263.7	0.0021	12.1	302.5	-6.5	10.2
6.0	1308	26.4	0.00269	56.8	0.05	853.0	2.9309	268.8	281.3	269.20	69.3	264.1	0.0022	10.3	300.2	-5.2	8.9
6.1	1335	26.5	0.00276	56.8	0.05	850.0	2.9294	268.7	281.5	269.08	70.5	264.1	0.0023	10.0	298.5	-4.8	8.8
7.0	1542	26.6	0.00331	57.4	0.05	828.0	2.9180	267.8	282.6	268.17	79.2	264.7	0.0024	8.3	282.1	-1.7	8.1
8.0	1792	28.5	0.00400	61.5	0.06	802.0	2.9042	267.8	285.2	268.13	68.1	262.8	0.0022	10.3	265.5	0.8	10.3
8.1	1811	28.5	0.00406	61.4	0.06	800.0	2.9031	267.7	285.3	268.02	68.1	262.7	0.0021	10.5	264.8	1.0	10.4
9.0	2060	27.9	0.00476	60.5	0.06	775.0	2.8893	266.3	286.4	266.61	67.9	261.4	0.0020	12.7	256.9	2.9	12.4
10.0	2325	27.9	0.00552	60.8	0.04	749.0	2.8745	265.3	288.1	265.56	68.3	260.4	0.0019	15.3	245.3	6.4	13.9
11.0	2599	28.6	0.00630	62.5	0.07	723.0	2.8591	263.9	289.6	264.25	74.7	260.3	0.0020	16.9	243.7	7.5	15.1
12.0	2848	28.2	0.00703	61.7	0.07	700.0	2.8451	263.5	291.8	263.77	57.8	256.8	0.0015	18.4	245.0	7.8	16.7
12.0	2860	28.1	0.00706	61.7	0.07	699.0	2.8445	263.5	291.9	263.74	57.1	256.6	0.0015	18.5	245.0	7.8	16.8
13.0	3140	28.1	0.00787	62.1	0.07	674.0	2.8287	261.8	293.0	261.92	36.5	249.9	0.0009	20.6	249.4	7.2	19.3
14.0	3405	27.6	0.00863	61.2	0.07	651.0	2.8136	260.7	294.7	260.72				22.9	246.3	9.2	21.0
15.0	3703	31.4	0.00954	69.8	0.08	626.0	2.7966	259.9	297.2	260.00				23.8	240.1	11.9	20.6

STATION WALLOPS IS LAUNCH DATE 10781 LAUNCH TIME 1605 GMT ECC SONDE 3A1508X

16.0	3999	27.1	0.01045	60.7	0.07	602.0	2.7796	257.7	297.9	257.78	21.6	240.7	0.0004	24.1	244.1	10.5	21.7
16.1	4023	27.0	0.01052	60.6	0.07	600.0	2.7782	257.5	298.0	257.60	21.5	240.5	0.0004	24.3	243.2	11.0	21.7
17.0	4317	26.1	0.01134	58.9	0.07	577.0	2.7612	255.4	298.8	255.44	21.7	238.8	0.0004	27.1	234.0	15.9	21.9
18.0	4633	25.4	0.01220	58.0	0.08	553.0	2.7427	253.1	299.8	253.13	21.9	236.9	0.0003	29.9	225.2	21.0	21.2
19.0	4960	27.3	0.01312	63.0	0.09	529.0	2.7235	250.7	300.7	250.71	21.5	234.7	0.0003	29.6	228.6	19.5	22.2
20.0	5285	25.4	0.01405	59.1	0.08	506.0	2.7042	248.5	301.9	248.57	20.7	232.4	0.0002	29.0	227.9	19.5	21.5
20.3	5371	25.1	0.01428	58.3	0.08	500.0	2.6990	248.0	302.3	248.04	20.6	232.0	0.0002	29.2	227.9	19.6	21.6
21.0	5592	24.1	0.01488	56.5	0.08	485.0	2.6857	246.7	303.3	246.70	20.4	230.7	0.0002	29.5	227.8	19.8	21.9
22.0	5894	28.8	0.01576	68.2	0.10	465.0	2.6675	244.2	303.9	244.18				31.8	232.3	19.5	25.2
23.0	6191	30.7	0.01674	73.1	0.11	446.0	2.6493	242.8	305.8	242.85				32.7	231.4	20.4	25.6
24.0	6499	28.7	0.01776	68.9	0.11	427.0	2.6304	241.0	307.3	240.99				33.6	225.7	23.5	24.1
25.0	6836	32.5	0.01892	78.4	0.13	407.0	2.6096	239.4	309.5	239.39				34.6	223.5	25.1	23.8
25.3	6957	32.9	0.01937	79.5	0.14	400.0	2.6021	239.0	310.5	239.02				34.2	222.8	25.1	23.2
26.0	7188	33.7	0.02024	81.6	0.14	387.0	2.5877	238.3	312.6	238.32				33.4	221.4	25.1	22.1
27.0	7537	41.4	0.02173	101.2	0.19	368.0	2.5658	236.1	314.2	236.16				37.7	222.9	27.6	25.7
28.0	7863	33.3	0.02312	81.8	0.16	351.0	2.5453	235.2	317.2	235.21				36.4	223.3	26.5	25.0
28.1	7882	33.0	0.02319	81.1	0.16	350.0	2.5441	235.0	317.2	235.03				36.4	223.4	26.4	25.0
29.0	8141	28.8	0.02412	71.4	0.14	337.0	2.5276	232.7	317.6	232.73				35.1	224.5	25.0	24.6
30.0	8449	25.7	0.02510	64.5	0.13	322.0	2.5079	230.2	318.2	230.22				37.6	229.4	24.5	28.6
31.0	8812	26.3	0.02621	66.9	0.14	305.0	2.4843	227.2	319.0	227.21				37.6	233.4	22.4	30.2
31.3	8921	29.1	0.02661	73.9	0.16	300.0	2.4771	227.1	320.4	227.12				37.6	233.3	22.5	30.1
32.0	9147	34.6	0.02743	88.1	0.20	290.0	2.4624	226.9	323.2	226.92				37.6	233.1	22.6	30.1
33.0	9428	45.8	0.02877	116.3	0.27	278.0	2.4440	227.4	327.8	227.36				34.4	231.2	21.5	26.8
34.0	9721	56.1	0.03054	142.8	0.35	266.0	2.4249	226.6	330.9	226.63				35.7	233.4	21.3	28.7
35.0	10052	59.0	0.03282	151.3	0.39	253.0	2.4031	225.2	333.4	225.16				36.9	235.3	21.0	30.4
35.2	10130	59.0	0.03337	151.5	0.39	250.0	2.3979	224.8	334.0	224.75				37.0	235.7	20.9	30.6
36.0	10371	58.8	0.03508	152.0	0.40	241.0	2.3820	223.5	335.6	223.51				37.2	236.9	20.3	31.2
37.0	10703	58.0	0.03743	151.2	0.42	229.0	2.3598	221.5	337.5	221.51				37.0	240.4	18.3	32.2
38.0	11053	61.0	0.03996	158.1	0.47	217.0	2.3365	222.6	344.4	222.59				34.8	245.9	14.2	31.7
39.0	11363	56.0	0.04213	142.9	0.45	207.0	2.3160	226.2	354.7	226.19				35.0	248.3	13.0	32.5
39.7	11590	56.5	0.04366	144.7	0.47	200.0	2.3010	225.5	357.1	225.47				36.5	247.7	13.9	33.8
40.0	11690	56.8	0.04433	145.5	0.48	197.0	2.2945	225.2	358.2	225.16				37.2	247.4	14.3	34.4
41.0	12032	56.1	0.04665	144.4	0.50	187.0	2.2718	224.4	362.3	224.41				36.8	247.6	14.0	34.0
42.0	12392	57.7	0.04912	149.3	0.54	177.0	2.2480	223.2	366.1	223.20				36.2	248.4	13.3	33.7
43.0	12694	63.0	0.05133	162.9	0.62	169.0	2.2279	223.2	370.9	223.20				35.9	249.8	12.4	33.7
44.0	13010	63.0	0.05374	163.8	0.65	161.0	2.2068	222.0	374.0	221.98				35.4	253.5	10.1	34.0
45.0	13340	67.6	0.05636	176.9	0.73	153.0	2.1847	220.6	377.1	220.57				32.4	255.4	8.2	31.3
45.5	13467	69.9	0.05745	182.7	0.77	150.0	2.1761	220.8	379.7	220.80				32.7	256.3	7.7	31.7
46.0	13598	72.2	0.05857	188.6	0.81	147.0	2.1673	221.0	382.3	221.04				32.9	257.3	7.3	32.1
47.0	13914	56.2	0.06104	146.7	0.67	140.0	2.1461	221.4	388.2	221.35				34.8	260.0	6.1	34.3

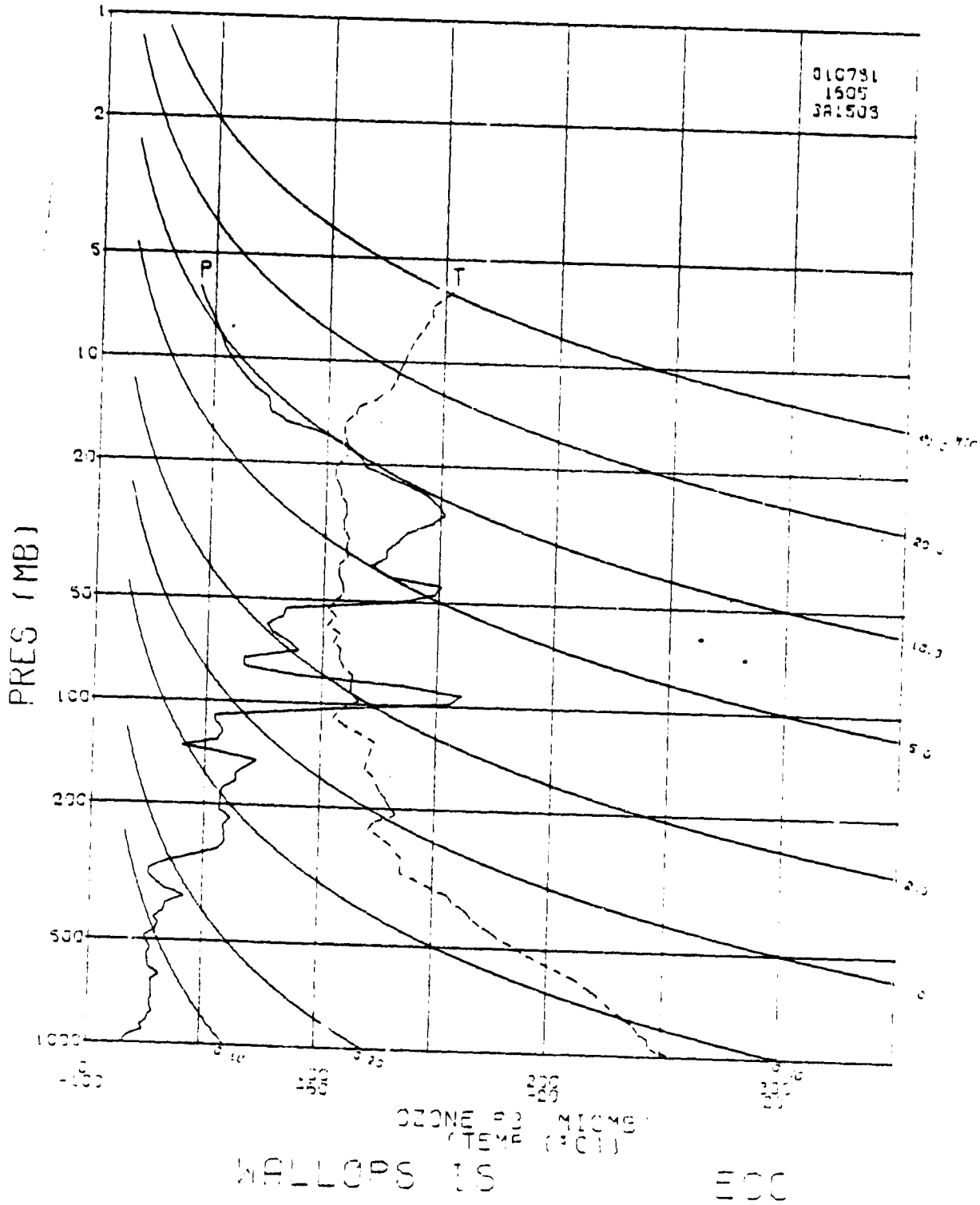
STATION WALLOPS IS LAUNCH DATE 10781 LAUNCH TIME 1605 GMT ECC SONDE 3A1508X

48.0	14198	39.5	0.06269	103.1	0.49	134.0	2.1271	221.5	393.4	221.51	30.9	262.2	4.2	30.6
49.0	14495	54.8	0.06440	142.3	0.71	128.0	2.1072	222.3	399.9	222.28	28.4	258.6	5.6	27.8
49.5	14648	55.9	0.06545	146.1	0.74	125.0	2.0969	221.1	400.5	221.12	29.4	255.5	7.4	28.4
50.0	14805	57.1	0.06652	150.0	0.78	122.0	2.0864	219.9	401.2	219.93	30.5	252.4	9.2	29.0
51.0	15182	54.0	0.06911	143.8	0.78	115.0	2.0607	216.8	402.2	216.82	32.4	253.6	9.2	31.1
52.0	15520	53.0	0.07137	142.3	0.81	109.0	2.0374	214.9	404.9	214.95	31.8	260.9	5.1	31.4
53.0	15877	101.4	0.07482	270.8	1.63	103.0	2.0128	216.1	413.8	216.15	32.9	265.6	2.5	32.8
53.5	16065	130.2	0.07782	344.5	2.17	100.0	2.0000	217.8	420.6	217.81	32.1	264.0	3.4	31.9
54.0	16233	155.8	0.08049	410.2	2.65	97.4	1.9886	219.3	426.6	219.29	31.5	262.5	4.1	31.2
55.0	16577	160.0	0.08719	423.7	2.87	92.3	1.9652	218.0	430.6	217.99	30.8	257.3	6.8	30.0
56.0	16939	136.7	0.09384	362.5	2.60	87.2	1.9405	217.8	437.3	217.82	31.1	253.7	8.7	29.8
57.0	17300	87.7	0.09886	231.9	1.76	82.4	1.9159	218.3	445.5	218.32	30.4	256.5	7.1	29.5
57.6	17488	75.4	0.10064	200.3	1.56	80.0	1.9031	217.3	447.2	217.31	29.7	254.8	7.8	28.7
58.0	17641	65.4	0.10210	174.5	1.39	78.1	1.8927	216.5	448.6	216.49	29.2	253.5	8.3	28.0
59.0	17999	64.9	0.10501	173.7	1.46	73.8	1.8681	215.6	454.1	215.64	28.9	245.1	12.2	26.2
59.9	18332	86.6	0.10820	231.6	2.05	70.0	1.8451	216.0	461.7	215.95	28.1	252.1	8.6	26.8
60.0	18360	88.4	0.10846	236.3	2.10	69.7	1.8432	216.0	462.3	215.98	28.1	252.7	8.3	26.8
61.0	18715	84.2	0.11228	226.3	2.12	65.9	1.8189	214.8	467.1	214.77	28.8	260.0	5.0	28.4
62.0	19077	77.2	0.11596	206.6	2.06	62.2	1.7938	215.6	476.8	215.64	21.3	262.3	2.9	21.1
62.7	19302	75.7	0.11812	203.8	2.09	60.0	1.7782	214.4	478.9	214.37	17.7	259.6	3.2	17.4
63.0	19419	74.9	0.11923	202.3	2.11	58.9	1.7701	213.7	480.0	213.72	15.8	257.8	3.4	15.5
64.0	19780	82.0	0.12280	220.3	2.44	55.6	1.7451	214.9	490.8	214.95	17.8	256.2	4.2	17.2
65.0	20140	83.9	0.12655	225.8	2.65	52.5	1.7202	213.7	496.0	213.72	19.2	265.4	1.5	19.1
65.9	20446	126.3	0.13070	339.3	4.20	50.0	1.6990	215.0	505.9	214.97	19.4	274.3	-1.5	19.3
66.0	20484	131.6	0.13121	353.1	4.39	49.7	1.6964	215.1	507.2	215.12	19.4	275.4	-1.8	19.3
67.0	20823	147.3	0.13713	393.0	5.18	47.1	1.6730	216.3	517.9	216.32	15.3	274.8	-1.3	15.3
68.0	21182	150.9	0.14381	403.5	5.62	44.5	1.6484	216.0	525.5	215.98	12.7	266.3	0.8	12.7
69.0	21547	126.9	0.15014	340.2	5.01	42.0	1.6232	215.3	532.6	215.29	15.1	268.4	0.4	15.1
69.7	21853	121.3	0.15488	325.2	5.02	0.0	1.6021	215.3	540.1	215.29	16.5	271.4	-0.4	16.5
70.0	21965	119.2	0.15659	319.7	5.03	39.3	1.5944	215.3	542.8	215.29	17.0	272.4	-0.7	17.0
71.0	22312	126.0	0.16191	335.5	5.61	37.2	1.5705	216.8	555.3	216.82	13.1	286.4	-3.7	12.6
72.0	22662	126.6	0.16741	337.6	5.96	35.2	1.5465	216.5	563.3	216.49	13.0	281.3	-2.5	12.8
72.1	22698	127.1	0.16800	338.8	6.02	35.0	1.5441	216.5	564.3	216.53	13.1	281.1	-2.5	12.9
73.0	23052	131.6	0.17368	350.3	6.59	33.1	1.5198	217.0	574.6	216.99	13.7	280.0	-2.4	13.5
74.0	23467	136.0	0.18060	363.4	7.27	31.0	1.4914	216.1	583.2	216.15	12.7	285.1	-3.3	12.2
74.5	23674	141.6	0.18426	378.5	7.83	30.0	1.4771	216.1	588.4	216.06	13.0	284.9	-3.3	12.5
75.0	23845	146.2	0.18727	390.9	8.30	29.2	1.4654	216.0	592.8	215.98	13.2	284.7	-3.4	12.8
76.0	24179	151.1	0.19345	402.7	9.04	27.7	1.4425	216.7	603.6	216.66	12.2	281.2	-2.4	12.0
77.0	24532	148.9	0.20004	397.0	9.41	26.2	1.4183	216.5	612.8	216.49	15.4	266.4	1.0	15.3
77.7	24828	145.6	0.20547	389.9	9.65	25.0	1.3979	215.6	618.6	215.60	16.7	264.7	1.5	16.6

STATION WALLOPS IS LAUNCH DATE 10781 LAUNCH TIME 1605 GMT ECC SONDE 3A1508X

78.0	24930	144.5	0.20734	387.5	9.73	24.6	1.3909	215.3	620.5	215.29	17.1	264.2	1.7	17.0
79.0	25299	137.9	0.21386	370.2	9.85	23.2	1.3655	215.1	630.5	215.12	16.9	271.9	-0.6	16.9
80.0	25719	127.4	0.22086	343.4	9.73	21.7	1.3365	214.2	640.0	214.25	17.7	275.3	-1.6	17.7
81.0	26168	116.3	0.22775	312.9	9.54	20.2	1.3054	214.6	654.4	214.60	19.6	273.6	-1.2	19.6
81.1	26230	115.9	0.22865	311.4	9.60	20.0	1.3010	214.9	657.0	214.86	20.5	272.6	-0.9	20.5
82.0	26587	113.4	0.23378	302.7	9.94	18.9	1.2765	216.3	672.3	216.32	25.6	268.1	0.8	25.6
83.0	27074	107.6	0.24049	287.0	10.19	17.5	1.2430	216.5	687.7	216.49	31.6	266.6	1.9	31.6
84.0	27562	97.4	0.24674	260.9	9.97	16.2	1.2095	215.6	700.3	215.64	32.5	272.2	-1.3	32.4
85.0	28048	80.9	0.25215	216.0	8.93	15.0	1.1761	216.1	717.6	216.15	23.2	274.7	-1.9	23.1
86.0	28396	74.6	0.25551	197.9	8.71	14.2	1.1523	217.7	734.0	217.66	15.7	279.9	-2.7	15.5
87.0	28718	73.5	0.25846	194.3	9.02	13.5	1.1303	218.3	746.9	218.32	19.0	284.9	-4.9	18.4
88.0	29060	72.7	0.26153	189.5	9.41	12.8	1.1072	221.4	768.9	221.35	26.2	280.3	-4.7	25.8
88.4	29214	70.3	0.26283	182.6	9.31	12.5	1.0969	222.3	777.4	222.26	28.1	277.8	-3.8	27.9
89.0	29480	66.2	0.26507	170.7	9.13	12.0	1.0792	223.8	791.9	223.81	31.5	274.2	-2.3	31.4
90.0	29933	62.4	0.26857	160.2	9.23	11.2	1.0492	224.9	811.5	224.86	31.4	269.1	0.5	31.4
91.0	30358	58.6	0.27165	150.1	9.25	10.5	1.0212	225.5	828.8	225.45	29.0	269.1	0.4	29.0
91.8	30680	56.4	0.27385	144.0	9.34	10.0	1.0000	226.1	842.7	226.07	30.3	265.9	2.2	30.2
92.0	30747	55.9	0.27431	142.7	9.36	9.9	0.9956	226.2	845.6	226.19	30.6	265.3	2.5	30.5
93.0	31233	53.2	0.27747	135.4	9.59	9.2	0.9638	227.1	866.8	227.07	34.9	261.4	5.2	34.5
94.0	31760	51.3	0.28073	129.9	10.00	8.5	0.9294	228.1	890.6	228.08	35.1	263.3	4.1	34.9
94.8	32165	49.5	0.28313	124.8	10.26	8.0	0.9031	229.3	910.9	229.26	36.0	268.5	0.9	36.0
95.0	32250	49.2	0.28363	123.7	10.31	7.9	0.8976	229.5	915.1	229.51	36.2	269.6	0.3	36.2
96.0	32782	47.0	0.28663	117.6	10.68	7.3	0.8633	230.9	941.8	230.92	37.9	278.6	-5.6	37.5
96.6	33065	45.4	0.28814	113.6	10.75	7.0	0.8451	231.0	953.5	231.00	41.3	282.4	-8.9	40.4
97.0	33262	44.3	0.28919	110.8	10.80	6.8	0.8325	231.1	961.6	231.06	43.8	284.7	-11.1	42.3
98.0	33891	42.2	0.29234	104.1	11.28	6.2	0.7924	234.2	1000.9	234.24	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***



STATION WALLOPS IS LAUNCH DATE 11681 LAUNCH TIME 1456 GMT ECC SONDE 3A1510X

SURFACE CONDITIONS					
PRESS	1022.1 MB	OO3 = 27.4	TBOX CAL =	30.0 C	AT 73.7 ORD
TEMP	273.4 K	OIZ = 27.0	BASE CAL =	30.0 C	AT 73.4 ORD
HUMY	95.0 %	OZC = 55.6	HUMIDITY =	61.6 %	AT 46.0 ORD
		IO = 0.073			
		PS = 29.8			

	PROFILE	DOBSON
INTEGRATED OZONE	0.24826	
RESIDUAL OZONE	0.07747	
TOTAL OZONE	0.32574	0.33500

ADDITIONAL DOBSON INFORMATION

Observation Type: 5
Wavelength: 0
Air Mass: 1.911
GMT: 1700

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	1.6	0.	3.3	0.00	1022.1	3.0095	273.4	271.6	273.97	97.8	273.0	0.0037	2.0	260.0	0.3	2.0
0.7	178	2.1	0.00003	4.5	0.00	1000.0	3.0000	272.0	272.0	272.57	98.7	271.8	0.0034	3.1	269.4	0.	3.1
1.0	251	2.3	0.00005	4.9	0.00	991.0	2.9961	271.4	272.1	272.20	99.1	271.3	0.0033	3.5	271.6	-0.1	3.5
2.0	511	8.6	0.00019	18.5	0.01	959.0	2.9818	270.2	273.4	270.72	99.3	270.1	0.0032	2.5	293.4	-1.0	2.2
3.0	779	10.3	0.00044	22.1	0.02	927.0	2.9671	269.9	275.8	270.20	60.0	263.2	0.0019	2.5	298.7	-1.2	2.2
3.9	1011	18.3	0.00079	39.3	0.03	900.0	2.9542	269.2	277.4	269.49	57.0	262.0	0.0018	4.4	281.8	-0.9	4.3
4.0	1038	19.2	0.00083	41.2	0.04	897.0	2.9528	269.1	277.6	269.41	56.7	261.8	0.0018	4.6	280.7	-0.9	4.5
5.0	1296	22.6	0.00137	48.7	0.04	868.0	2.9385	267.9	279.0	268.20	60.9	261.6	0.0018	7.1	274.8	-0.6	7.0
5.6	1459	22.6	0.00174	49.0	0.04	850.0	2.9294	266.3	278.9	266.59	70.3	261.7	0.0019	8.6	272.7	-0.4	8.6
6.0	1552	22.6	0.00195	49.1	0.04	840.0	2.9243	265.4	278.9	265.68	75.7	261.8	0.0019	9.4	271.8	-0.3	9.4
7.0	1834	25.5	0.00264	55.9	0.05	810.0	2.9085	263.6	280.0	263.94	87.1	261.9	0.0020	14.2	262.0	2.0	14.1
7.3	1931	29.0	0.00294	62.9	0.06	800.0	2.9031	265.6	283.1	265.87	63.3	256.9	0.0012	15.3	258.9	2.9	15.0
8.0	2129	36.0	0.00356	77.2	0.08	780.0	2.8921	269.7	289.6	269.82				17.5	253.6	4.9	16.8
9.0	2417	37.9	0.00463	81.4	0.08	752.0	2.8762	268.8	291.6	268.91				17.9	249.4	6.3	16.7
10.0	2683	37.8	0.00564	81.2	0.09	727.0	2.8615	268.8	294.4	268.82				19.1	250.7	6.3	18.0
11.0	2979	36.0	0.00674	78.0	0.09	700.0	2.8451	266.7	295.3	266.77				19.5	251.0	6.3	18.4
12.0	3286	35.4	0.00785	76.6	0.09	673.0	2.8280	266.4	298.3	266.45				19.2	249.8	6.6	18.0
13.0	3567	34.7	0.00885	75.9	0.09	649.0	2.8122	263.8	298.4	263.81				20.7	251.7	6.5	19.7
14.0	3894	34.9	0.01002	77.0	0.09	622.0	2.7938	262.2	300.3	262.19				22.8	255.8	5.6	22.1
14.9	4169	29.7	0.01093	65.6	0.08	600.0	2.7782	260.9	301.9	260.88				23.5	251.8	7.3	22.3
15.0	4195	29.2	0.01101	64.6	0.08	598.0	2.7767	260.8	302.0	260.76				23.6	251.5	7.5	22.4

STATION WALLOPS IS LAUNCH DATE 11681 LAUNCH TIME 1456 GMT ECC SONDE 3A1510X

16.0	4519	29.4	0.01200	65.8	0.09	573.0	2.7582	258.2	302.8	258.31	22.2	241.4	0.0005	23.7	247.8	9.0	22.0
17.0	4827	29.4	0.01295	66.5	0.09	550.0	2.7404	255.5	303.1	255.56	27.8	241.4	0.0005	23.6	250.1	8.0	22.2
18.0	5131	27.4	0.01387	62.5	0.09	528.0	2.7226	253.2	303.9	253.24	23.1	237.5	0.0003	25.3	248.9	9.1	23.6
19.0	5474	24.9	0.01483	57.5	0.08	504.0	2.7024	250.4	304.5	250.43	30.9	237.9	0.0004	25.3	246.8	10.0	23.3
19.2	5532	25.1	0.01499	58.0	0.08	500.0	2.6990	250.0	304.8	250.08	34.5	238.5	0.0004	25.4	246.7	10.0	23.3
20.0	5800	25.9	0.01572	60.2	0.09	482.0	2.6830	248.4	306.0	248.46	50.9	241.2	0.0005	25.5	246.5	10.2	23.4
21.0	6138	22.5	0.01662	52.8	0.08	460.0	2.6628	246.3	307.4	246.34	58.5	240.6	0.0005	26.8	248.8	9.7	25.0
22.0	6457	21.1	0.01738	50.0	0.08	440.0	2.6435	244.2	308.7	244.23	66.5	239.9	0.0005	26.6	248.8	9.6	24.8
23.0	6788	22.4	0.01818	53.5	0.09	420.0	2.6232	241.9	309.9	241.96	57.8	236.4	0.0004	22.9	250.2	7.8	21.5
24.0	7131	21.7	0.01903	52.3	0.09	400.0	2.6021	239.4	311.0	239.43	57.4	233.9	0.0003	20.7	252.6	6.2	19.7
24.0	7149	21.7	0.01907	52.3	0.09	399.0	2.6010	239.3	311.1	239.30	57.3	233.8	0.0003	20.5	252.8	6.1	19.6
25.0	7525	17.	0.01990	41.6	0.07	378.0	2.5775	236.6	312.4	236.61	42.0	228.4	0.0002	21.4	252.4	6.5	20.4
26.0	7899	17.7	0.02065	43.8	0.08	358.0	2.5539	233.6	313.3	233.63	46.6	226.6	0.0002	20.7	252.3	6.3	19.7
26.4	8052	16.8	0.02094	41.9	0.08	350.0	2.5441	232.2	313.3	232.16				20.8	252.3	6.3	19.8
27.0	8249	15.7	0.02133	39.4	0.08	340.0	2.5315	230.3	313.4	230.29				21.0	252.3	6.4	20.0
28.0	8634	14.3	0.02201	36.3	0.07	321.0	2.5065	227.0	314.1	227.03				20.0	252.4	6.0	19.0
29.0	8950	14.2	0.02254	36.6	0.08	306.0	2.4857	223.9	314.1	223.94				18.9	252.4	5.7	18.0
29.4	9078	13.7	0.02276	35.5	0.08	300.0	2.4771	222.8	314.3	222.82				19.4	252.4	5.9	18.5
30.0	9299	12.8	0.02312	33.5	0.07	290.0	2.4624	220.9	314.6	220.90				20.3	252.4	6.1	19.3
31.0	9663	10.4	0.02364	27.5	0.06	274.0	2.4378	218.0	315.6	218.03				20.5	252.4	6.2	19.6
32.0	10021	9.6	0.02408	25.7	0.06	259.0	2.4133	216.2	318.1	216.22				21.6	252.4	6.5	20.5
32.6	10243	10.0	0.02436	26.9	0.07	250.0	2.3979	214.9	319.3	214.88				21.3	252.4	6.5	20.3
33.0	10422	10.3	0.02458	27.7	0.07	243.0	2.3856	213.8	320.3	213.81				21.2	252.4	6.4	20.2
34.0	10767	17.0	0.02517	45.4	0.12	230.0	2.3617	215.5	328.0	215.54				18.6	252.4	5.6	17.7
35.0	11078	24.2	0.02597	63.8	0.18	219.0	2.3404	218.7	337.5	218.68				18.2	252.4	5.5	17.3
36.0	11408	27.4	0.02702	72.1	0.22	208.0	2.3181	219.3	343.5	219.32				21.1	252.4	6.4	20.1
36.6	11660	30.5	0.02794	80.1	0.25	200.0	2.3010	219.8	348.1	219.80				87.2	247.6	33.2	80.6
37.0	11823	32.5	0.02854	85.2	0.28	195.0	2.2900	220.1	351.2	220.11				129.9	247.1	50.5	119.7
38.0	12234	37.2	0.03029	96.6	0.34	183.0	2.2625	222.3	361.1	222.28				130.5	246.5	52.1	119.6
39.0	12599	37.2	0.03194	96.9	0.36	173.0	2.2380	221.5	365.7	221.52				27.4	256.0	6.6	26.6
40.0	13025	37.2	0.03386	96.9	0.38	162.0	2.2095	221.7	372.9	221.67				29.2	263.3	3.4	29.0
41.0	13396	42.8	0.03567	111.2	0.46	153.0	2.1847	222.1	379.8	222.13				24.9	261.7	3.6	24.6
41.4	13524	42.8	0.03634	111.4	0.47	150.0	2.1761	221.7	381.2	221.67				24.6	260.2	4.2	24.2
42.0	13699	42.8	0.03725	111.7	0.49	146.0	2.1644	221.1	383.0	221.05				24.3	258.1	5.0	23.8
43.0	14062	37.0	0.03902	97.1	0.44	138.0	2.1399	220.0	387.3	219.96				27.4	261.3	4.1	27.1
44.0	14445	28.6	0.04057	75.7	0.37	130.0	2.1139	218.4	391.1	218.36				25.0	260.5	4.1	24.7
44.8	14694	29.7	0.04147	78.8	0.39	125.0	2.0969	217.7	394.3	217.68				22.8	257.4	5.0	22.2
45.0	14746	29.9	0.04166	79.4	0.40	124.0	2.0934	217.5	395.0	217.54				22.3	256.7	5.1	21.7
46.0	15061	32.4	0.04288	86.5	0.46	118.0	2.0719	216.4	398.5	216.38				27.4	255.9	6.7	26.6
47.0	15505	38.9	0.04486	104.2	0.59	110.0	2.0414	215.7	405.3	215.71				27.3	253.6	7.7	26.2

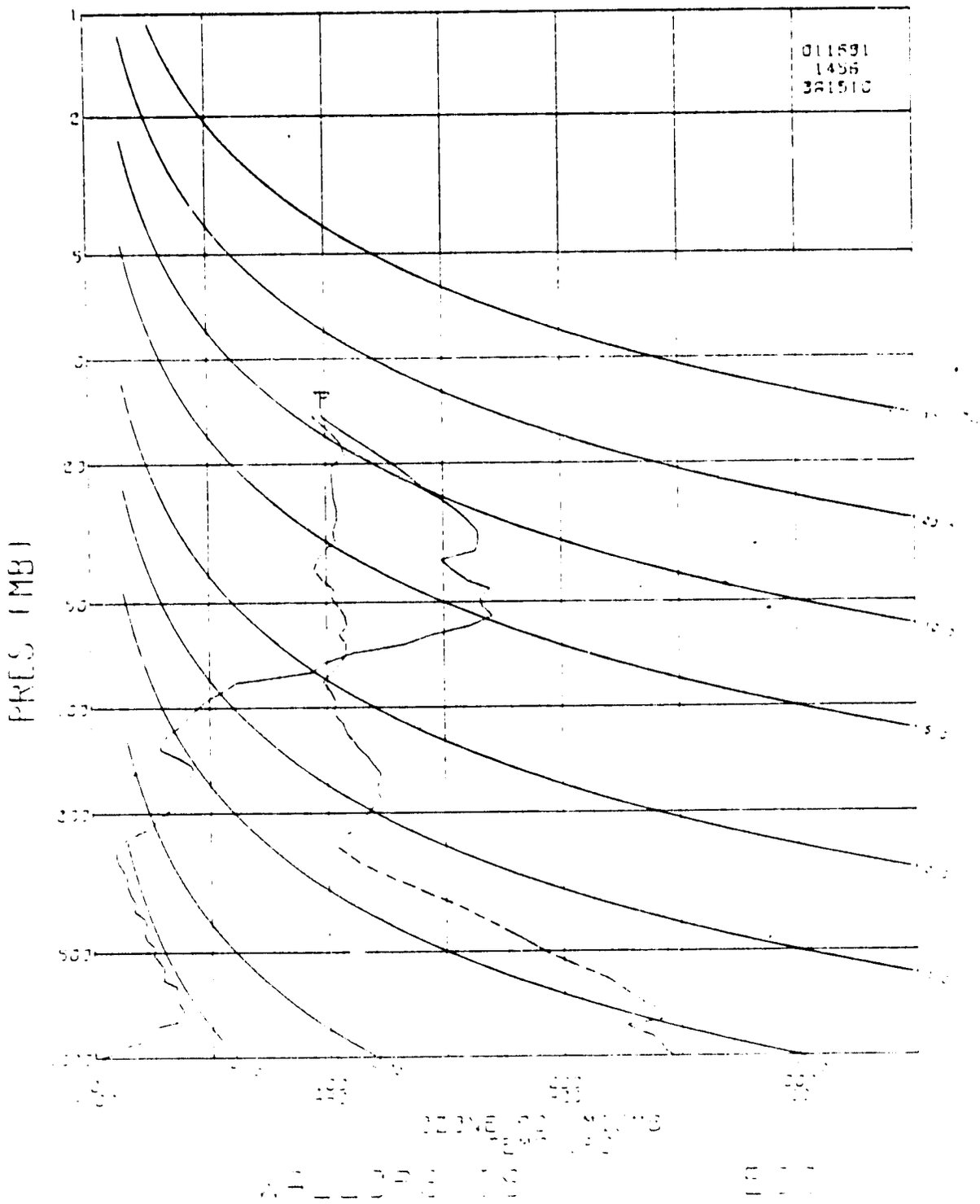
STATION WALLOPS IS LAUNCH DATE 11681 LAUNCH TIME 1456 GMT ECC SONDE 3A1510X

48.0	15858	42.0	0.04665	113.1	0.67	104.0	2.0170	214.3	409.2	214.34	31.7	251.8	9.9	30.1
48.4	16103	44.8	0.04805	120.6	0.75	100.0	2.0000	214.4	414.0	214.41	32.4	251.4	10.3	30.7
49.0	16452	48.7	0.05004	131.1	0.85	94.6	1.9759	214.5	420.8	214.51	33.3	250.9	10.9	31.5
50.0	16841	55.9	0.05260	151.1	1.04	88.9	1.9489	213.6	426.6	213.64	25.6	252.3	7.8	24.4
51.0	17224	62.2	0.05547	169.0	1.23	83.6	1.9222	212.4	431.6	212.39	27.0	254.2	7.3	26.0
51.7	17498	83.3	0.05818	225.2	1.74	80.0	1.9031	213.4	439.3	213.44	27.6	255.6	6.9	26.8
52.0	17640	94.3	0.05959	254.3	2.00	78.2	1.8932	214.0	443.2	213.99	28.0	256.3	6.6	27.2
53.0	18038	99.6	0.06443	266.7	2.25	73.4	1.8657	215.7	454.9	215.71	27.5	260.7	4.4	27.2
53.7	18337	108.6	0.06839	290.1	2.58	70.0	1.8451	216.2	462.2	216.21	25.8	263.3	3.0	25.6
54.0	18438	111.6	0.06971	297.0	2.69	68.9	1.8382	216.4	464.7	216.38	25.2	264.2	2.5	25.1
55.0	18797	133.7	0.07520	356.8	3.40	65.1	1.8136	216.4	472.3	216.38	23.7	262.2	3.2	23.5
56.0	19177	144.8	0.08181	388.4	3.91	61.3	1.7875	215.2	477.8	215.20	24.5	261.9	3.5	24.3
56.4	19312	150.7	0.08439	403.4	4.17	60.0	1.7782	215.7	481.9	215.69	24.0	261.2	3.7	23.7
57.0	19548	161.1	0.08890	429.6	4.62	57.8	1.7619	216.5	489.0	216.55	23.0	260.0	4.0	22.7
58.0	19955	170.5	0.09731	455.2	5.21	54.2	1.7340	216.2	497.3	216.22	20.0	254.7	5.3	19.3
59.0	20327	166.2	0.10514	446.0	5.39	51.1	1.7084	215.2	503.3	215.20	18.9	251.3	6.1	17.9
59.4	20463	165.8	0.10798	445.8	5.50	50.0	1.6990	214.7	505.4	214.75	19.7	252.0	6.1	18.8
60.0	20694	165.2	0.11278	445.6	5.68	48.2	1.6830	214.0	508.9	213.99	21.1	252.9	6.2	20.2
61.0	21069	169.5	0.12068	456.5	6.18	45.4	1.6571	214.3	518.6	214.34	12.6	257.4	2.7	12.3
62.0	21403	159.5	0.12603	433.3	6.16	42.9	1.6325	212.6	522.7	212.57	14.9	251.7	4.7	14.1
63.0	21857	153.2	0.13666	418.9	6.34	40.0	1.6021	211.1	529.6	211.11	27.0	252.4	8.1	25.8
64.0	22273	148.5	0.14466	405.0	6.58	37.4	1.5729	211.7	541.3	211.66	24.4	255.5	6.1	23.6
65.0	22649	163.6	0.15213	443.7	7.70	35.2	1.5465	212.9	554.0	212.93	21.0	258.6	4.1	20.6
65.1	22684	163.7	0.15287	443.7	7.75	35.0	1.5441	213.1	555.3	213.08	21.0	258.7	4.1	20.6
66.0	23053	164.8	0.16049	443.2	8.28	33.0	1.5185	214.7	569.0	214.68	21.4	259.4	4.0	21.1
67.0	23445	164.5	0.16861	443.1	8.79	31.0	1.4914	214.3	578.3	214.34	22.7	260.7	3.7	22.4
67.4	23650	162.4	0.17281	436.9	8.97	30.0	1.4771	214.6	584.6	214.63	22.5	261.0	3.5	22.2
68.0	23929	159.6	0.17847	428.5	9.21	28.7	1.4579	215.0	593.1	215.03	22.1	261.4	3.3	21.8
69.0	24360	154.6	0.18696	415.1	9.56	26.8	1.4281	215.0	60[illegible].8	215.03	20.3	263.6	2.3	20.2
70.0	24797	148.5	0.19528	399.8	9.84	25.0	1.3979	214.5	61[illegible].4	214.51	19.3	260.3	3.3	19.1
71.0	25266	140.3	0.20379	378.1	10.02	23.2	1.3655	214.3	628.2	214.34	18.7	258.0	3.9	18.3
72.0	25714	135.3	0.21157	364.8	10.38	21.6	1.3345	214.2	640.6	214.16	21.0	258.0	4.4	20.6
73.0	26165	129.1	0.21907	347.7	10.64	20.1	1.3032	214.3	654.5	214.34	25.6	257.1	5.7	24.9
73.1	26196	128.6	0.21957	346.2	10.65	20.0	1.3010	214.5	655.9	214.49	25.7	257.4	5.6	25.1
74.0	26586	122.4	0.22571	326.5	10.79	18.8	1.2742	216.4	673.5	216.38	28.0	260.7	4.5	27.6
74.9	27039	115.6	0.23246	309.2	10.94	17.5	1.2430	215.8	685.6	215.80	28.1	259.4	5.1	27.6
75.0	27112	114.5	0.23348	306.4	10.96	17.3	1.2380	215.7	687.5	215.71	28.1	259.3	5.2	27.6
76.0	27642	106.4	0.24083	287.4	11.08	15.9	1.2014	213.6	697.5	213.64	27.9	256.1	6.7	27.1
76.6	28004	101.1	0.24553	275.5	11.16	15.0	1.1761	211.9	703.6	211.92	999.9	999.9	999.9	999.9
77.0	28215	98.1	0.24826	268.5	11.21	14.5	1.1614	210.9	707.1	210.93	999.9	999.9	999.9	999.9

STATION WALLOPS IS LAUNCH DATE 11681 LAUNCH TIME 1456 GMT ECC SONDE 3A1510X

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 12281 LAUNCH TIME 1621 GMT ECC SONDE 3A1499X

SURFACE CONDITIONS
PRESS 1012.0 MB
TEMP 275.8 K
HUMY 75.0 %

OO3 = 28.4
OIZ = 28.0
OZC = 57.5
IO = 0.071
PS = 29.6

TBOX CAL = 30.0 C AT 74.2 ORD
BASE CAL = 30.0 C AT 73.4 ORD
HUMIDITY = 61.8 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.25425	
RESIDUAL OZONE	0.02447	
TOTAL OZONE	0.27871	0.30800

ADDITIONAL DOBSON INFORMATION

Observation Type: 0
Wavelength: 0
Air Mass: 1.846
GMT: 1700

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	14.0	0.	29.2	0.02	1012.0	3.0052	276.0	275.0	276.53	73.0	271.6	0.0034	4.0	190.0	3.9	0.7
0.5	100	13.1	0.00012	27.3	0.02	1000.0	3.0000	276.6	276.6	277.18	72.7	272.2	0.0036	5.6	217.2	4.5	3.4
1.0	215	12.1	0.00027	25.1	0.02	986.0	2.9939	277.3	278.4	277.94	72.4	272.8	0.0038	8.3	232.3	5.1	6.6
2.0	432	14.1	0.00054	29.3	0.02	960.0	2.9823	277.3	280.6	277.98	74.9	273.3	0.0040	9.2	240.7	4.5	8.1
3.0	655	22.7	0.00094	47.6	0.04	934.0	2.9703	276.0	281.4	276.61	77.2	272.4	0.0038	8.7	245.8	3.6	8.0
4.0	865	20.3	0.00138	42.7	0.04	910.0	2.9590	274.3	281.8	274.93	79.9	271.2	0.0036	10.4	253.5	3.0	10.0
4.3	953	25.3	0.00162	53.3	0.05	900.0	2.9542	273.9	282.3	274.55	81.7	271.2	0.0037	11.1	257.2	2.5	10.8
5.0	1125	34.9	0.00209	73.8	0.07	881.0	2.9450	273.2	283.3	273.80	85.1	271.0	0.0037	12.4	263.0	1.5	12.3
6.0	1364	37.1	0.00294	78.6	0.07	855.0	2.9320	272.4	284.9	272.95	80.5	269.5	0.0034	11.3	270.8	-0.2	11.3
6.2	1410	37.1	0.00311	78.5	0.07	850.0	2.9294	272.7	285.7	273.29	78.3	269.4	0.0034	11.0	270.4	-0.1	11.0
7.0	1592	37.1	0.00377	78.2	0.07	831.0	2.9196	274.0	288.9	274.56	69.8	269.1	0.0034	9.8	268.4	0.3	9.8
8.0	1816	37.4	0.00460	79.4	0.08	808.0	2.9074	271.8	288.8	272.19	61.4	265.3	0.0026	10.6	270.1	-0.0	10.6
8.3	1895	36.2	0.00488	76.9	0.07	800.0	2.9031	272.1	290.0	272.45	49.7	261.9	0.0018	11.0	273.2	-0.6	10.9
9.0	2077	33.6	0.00551	71.0	0.07	782.0	2.8932	272.9	292.7	273.05	22.9	254.2	0.0011	11.9	279.5	-2.0	11.7
10.0	2325	36.0	0.00637	76.5	0.08	758.0	2.8797	272.1	294.5	272.19				12.0	282.4	-2.6	11.7
11.0	2591	35.6	0.00732	75.7	0.08	733.0	2.8651	271.1	296.3	271.20				12.0	276.9	-1.4	11.9
12.0	2843	36.5	0.00822	78.0	0.09	710.0	2.8513	269.9	297.6	269.96				12.3	280.9	-2.3	12.1
12.5	2954	33.8	0.00860	72.6	0.08	700.0	2.8451	269.1	298.0	269.29				13.5	283.0	-3.0	13.1
13.0	3091	30.6	0.00906	66.0	0.07	688.0	2.8376	268.2	298.4	268.48	44.1	257.9	0.0017	14.9	285.1	-3.9	14.4
14.0	3357	25.7	0.00981	55.4	0.06	665.0	2.8228	267.5	300.5	267.65	32.3	253.5	0.0012	17.9	285.7	-4.8	17.2
15.0	3631	27.0	0.01054	58.8	0.07	642.0	2.8075	265.2	301.0	265.37	28.3	250.1	0.0009	19.3	282.4	-4.2	18.8

STATION WALLOPS IS LAUNCH DATE 12281 LAUNCH TIME 1621 GMT ECC SONDE 3A1499X

16.0	3914	29.5	0.01136	64.4	0.08	619.0	2.7917	264.5	303.3	264.57				18.6	280.3	-3.3	18.3
16.9	4154	30.0	0.01209	65.8	0.08	600.0	2.7782	263.5	304.9	263.53				18.0	287.3	-5.4	17.2
17.0	4193	30.1	0.01221	66.1	0.08	597.0	2.7760	263.3	305.1	263.36				18.0	288.4	-5.7	17.1
18.0	4495	28.5	0.01312	62.8	0.08	574.0	2.7589	262.2	307.2	262.21				20.4	290.0	-7.0	19.2
19.0	4822	27.8	0.01407	61.5	0.08	550.0	2.7404	260.8	309.3	260.78				19.0	286.8	-5.5	18.2
20.0	5132	26.1	0.01493	58.2	0.08	528.0	2.7226	258.8	310.6	258.84				24.1	280.6	-4.5	23.7
21.0	5409	24.1	0.01566	54.0	0.08	509.0	2.7067	257.4	312.2	257.43				31.5	277.5	-4.1	31.2
21.4	5542	23.6	0.01599	53.1	0.08	500.0	2.6990	256.5	312.7	256.56				32.8	276.8	-3.9	32.6
22.0	5725	22.9	0.01644	51.8	0.08	488.0	2.6884	255.4	313.4	255.37				34.6	276.0	-3.6	34.4
23.0	6004	25.7	0.01716	58.6	0.09	470.0	2.6721	252.9	313.8	252.97				29.5	276.1	-3.1	29.3
24.0	6324	22.6	0.01799	52.1	0.08	450.0	2.6532	250.2	314.4	250.34	50.1	242.7	0.0007	21.1	276.2	-2.3	21.0
25.0	6621	19.5	0.01867	45.5	0.07	432.0	2.6355	248.0	315.2	248.10	66.6	243.6	0.0008	26.1	275.8	-2.7	25.9
26.0	6963	19.5	0.01940	45.9	0.08	412.0	2.6149	245.2	315.9	245.29	58.5	239.6	0.0005	29.5	277.1	-3.6	29.3
26.7	7174	18.5	0.01984	43.7	0.08	400.0	2.6021	243.7	316.7	243.79	52.6	237.1	0.0004	30.6	277.4	-3.9	30.4
27.0	7246	18.1	0.01998	43.0	0.08	396.0	2.5977	243.2	316.9	243.29	50.6	236.3	0.0004	31.0	277.5	-4.1	30.7
28.0	7576	16.4	0.02062	39.1	0.07	378.0	2.5775	241.5	318.9	241.53	26.0	228.5	0.0002	26.4	277.5	-3.4	26.2
29.0	7860	15.8	0.02113	38.2	0.07	363.0	2.5599	238.5	318.5	238.48	35.9	228.7	0.0002	20.2	283.4	-4.7	19.6
29.8	8112	16.3	0.02159	39.9	0.08	350.0	2.5441	236.0	318.5	235.99	46.5	228.7	0.0002	21.7	289.8	-7.4	20.4
30.0	8172	16.4	0.02170	40.3	0.08	347.0	2.5403	235.4	318.5	235.40	49.0	228.6	0.0002	22.1	291.2	-8.0	20.6
31.0	8516	13.8	0.02230	34.3	0.07	330.0	2.5185	232.5	319.2	232.51				37.9	292.3	-14.4	35.1
32.0	8853	13.7	0.02284	34.4	0.07	314.0	2.4969	230.6	321.0	230.57				40.0	289.7	-13.5	37.7
33.0	9136	13.1	0.02329	33.1	0.07	301.0	2.4786	227.6	320.7	227.60				31.2	284.1	-7.6	30.3
33.1	9158	12.8	0.02332	32.6	0.07	300.0	2.4771	227.4	320.8	227.42				31.5	283.9	-7.5	30.5
34.0	9474	9.8	0.02375	25.2	0.06	286.0	2.4564	224.8	321.5	224.84				34.9	280.8	-6.5	34.3
35.0	9778	10.0	0.02411	25.9	0.06	273.0	2.4362	222.4	322.3	222.44				35.2	279.5	-5.8	34.7
36.0	10044	14.5	0.02451	37.9	0.09	262.0	2.4183	220.7	323.7	220.74				32.8	279.4	-5.4	32.4
37.0	10345	17.6	0.02510	46.5	0.12	250.0	2.3979	219.0	325.4	219.00				30.9	279.1	-4.9	30.5
38.0	10659	20.8	0.02585	55.2	0.14	238.0	2.3766	217.4	327.6	217.38				35.1	279.1	-5.5	34.6
39.0	10989	23.3	0.02675	61.5	0.17	226.0	2.3541	218.5	334.2	218.52				39.3	275.2	-3.5	39.2
40.0	11335	23.2	0.02775	62.2	0.18	214.0	2.3304	215.7	335.1	215.71				38.5	272.0	-1.4	38.5
41.0	11698	23.9	0.02882	64.4	0.20	202.0	2.3054	214.2	338.2	214.16				34.7	275.2	-3.1	34.6
41.2	11760	32.4	0.02916	86.6	0.27	200.0	2.3010	215.0	340.6	215.01				35.6	275.7	-3.5	35.4
42.0	11986	62.8	0.03038	166.2	0.54	193.0	2.2856	218.0	348.9	218.03				38.6	277.3	-4.9	38.3
43.0	12292	60.1	0.03270	157.8	0.54	184.0	2.2648	219.8	356.5	219.80				41.8	276.6	-4.8	41.5
44.0	12614	42.3	0.03472	111.4	0.40	175.0	2.2430	219.5	361.1	219.48				42.5	274.7	-3.5	42.3
45.0	12954	33.7	0.03631	88.1	0.34	166.0	2.2201	221.1	369.2	221.05				46.9	275.8	-4.7	46.7
46.0	13273	29.5	0.03754	77.2	0.31	158.0	2.1987	220.6	373.7	220.58				40.5	277.4	-5.2	40.2
46.9	13607	28.8	0.03873	75.6	0.32	150.0	2.1761	220.2	378.6	220.17				44.7	277.3	-5.7	44.3
47.0	13651	28.7	0.03889	75.4	0.32	149.0	2.1732	220.1	379.2	220.11				45.2	277.3	-5.8	44.8
48.0	14052	25.0	0.04021	65.5	0.30	140.0	2.1461	220.0	385.7	219.96				45.0	274.7	-3.7	44.9

STATION WALLOPS IS LAUNCH DATE 12281 LAUNCH TIME 1621 GMT ECC SONDE 3A1499X

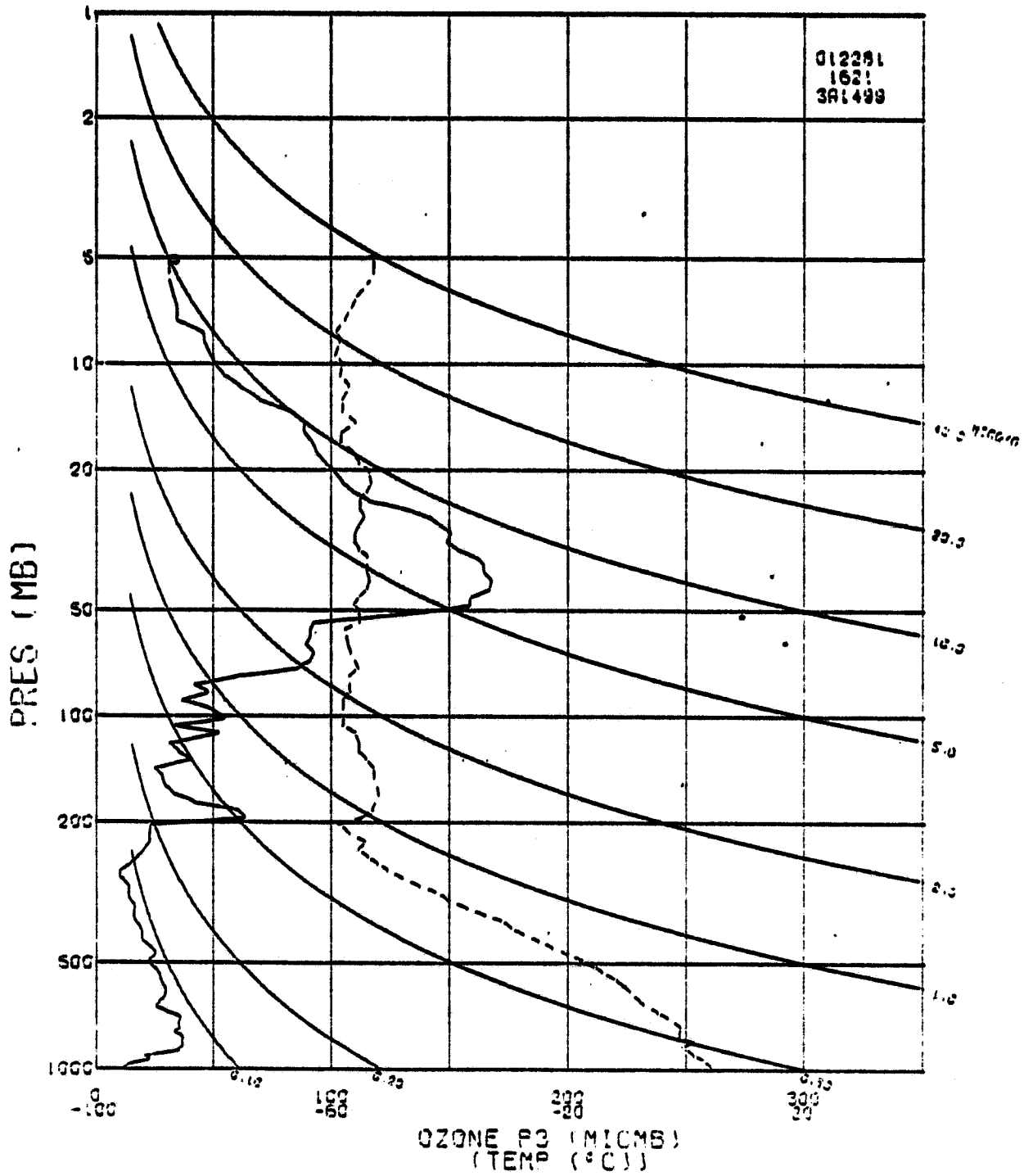
49.0	14[illegible]29	40.0	0.04171	105.6	0.50	132.0	2.1206	218.7	390.0	218.68	28.5	270.4	-0.2	28.5
50.0	14 26	35.7	0.04310	94.7	0.47	126.0	2.1004	217.5	393.2	217.54	27.1	274.7	-2.2	27.1
50.1	14776	35.1	0.04331	93.1	0.46	125.0	2.0969	217.5	394.0	217.52	28.6	275.2	-2.6	28.5
51.0	15090	31.5	0.04462	83.7	0.44	119.0	2.0755	217.4	399.3	217.38	37.4	277.4	-4.8	37.1
52.0	15532	51.6	0.04690	137.4	0.77	111.0	2.0453	216.7	406.1	216.72	39.4	276.8	-4.7	39.1
53.0	15823	34.0	0.04846	91.5	0.53	106.0	2.0253	214.9	408.0	214.86	41.8	276.5	-4.7	41.6
54.0	16126	54.2	0.05014	145.9	0.89	101.0	2.0043	214.7	413.3	214.68	49.3	275.1	-4.4	49.1
54.2	16188	53.3	0.05054	143.3	0.88	100.0	2.0000	214.7	414.6	214.71	48.4	275.0	-4.2	48.2
55.0	16511	48.5	0.05262	130.2	0.85	95.0	1.9777	214.9	420.9	214.86	43.5	274.7	-3.5	43.3
56.0	16879	36.8	0.05459	98.9	0.68	89.6	1.9523	214.9	428.0	214.86	33.1	276.8	-3.9	32.9
57.0	17196	47.7	0.05627	127.4	0.93	85.2	1.9304	216.0	436.7	216.05	24.9	275.4	-2.4	24.8
58.0	17523	41.9	0.05810	112.0	0.86	80.9	1.9079	215.7	442.5	215.71	21.4	285.7	-5.8	20.6
58.2	17593	45.6	0.05855	121.9	0.95	80.0	1.9031	215.8	444.0	215.78	20.1	287.9	-6.2	19.2
59.0	17876	60.4	0.06035	161.5	1.31	76.5	1.8837	216.0	450.3	216.05	15.6	300.0	-7.8	13.5
60.0	18190	84.8	0.06319	225.2	1.93	72.8	1.8621	217.4	459.5	217.38	16.3	283.2	-3.7	15.8
60.8	18439	89.7	0.06591	238.3	2.13	70.0	1.8451	217.4	464.7	217.38	15.0	275.6	-1.5	14.9
61.0	18503	91.0	0.06661	241.7	2.18	69.3	1.8407	217.4	466.1	217.38	14.7	273.4	-0.9	14.7
62.0	18822	92.6	0.07025	247.4	2.33	65.9	1.8189	216.0	469.9	216.05	7.3	319.6	-5.5	4.7
63.0	19166	88.9	0.07416	238.3	2.36	62.4	1.7952	215.5	476.2	215.54	6.4	335.3	-5.8	2.7
63.8	19412	90.7	0.07695	243.0	2.51	60.0	1.7782	215.4	481.2	215.40	4.6	296.5	-2.0	4.1
64.0	19476	91.1	0.07766	244.3	2.54	59.4	1.7738	215.4	482.5	215.37	4.6	283.5	-1.1	4.5
65.0	19780	91.1	0.08113	244.7	2.67	56.6	1.7528	215.0	488.5	215.03	16.5	290.4	-5.7	15.4
66.0	20113	92.9	0.08495	246.3	2.87	53.7	1.7300	217.7	502.0	217.71	26.9	286.1	-7.4	25.8
67.0	20467	131.1	0.08986	347.7	4.28	50.8	1.7059	217.7	510.1	217.71	9.1	293.3	-3.6	8.4
67.3	20567	138.7	0.09166	368.4	4.61	50.0	1.6990	217.4	511.7	217.42	7.6	301.6	-4.0	6.5
68.0	20814	157.2	0.09607	418.9	5.42	48.1	1.6821	216.7	515.7	216.72	5.3	338.6	-4.9	1.9
69.0	21167	158.7	0.10300	420.8	5.78	45.5	1.6580	217.7	526.4	217.71	9.3	353.8	-9.2	1.0
70.0	21469	166.5	0.10906	438.9	6.36	43.4	1.6375	219.0	536.7	219.00	12.2	349.3	-12.0	2.3
71.0	21818	167.6	0.11623	440.8	6.76	41.1	1.6138	219.5	546.3	219.48	17.6	324.8	-14.4	10.1
71.5	21991	165.8	0.11979	436.7	5.87	40.0	1.6021	219.2	550.0	219.23	14.2	338.3	-13.2	5.2
72.0	22154	164.2	0.12310	432.9	6.98	39.0	1.5911	219.0	553.3	219.00	12.1	356.8	-12.1	0.7
73.0	22457	164.3	0.12922	432.8	7.32	37.2	1.5705	219.2	561.3	219.16	10.0	342.4	-9.5	3.0
74.0	22811	160.5	0.13630	422.7	7.55	35.2	1.5465	219.2	570.2	219.16	9.0	13.0	-8.8	-2.0
74.1	22847	159.5	0.13701	420.7	7.55	35.0	1.5441	219.0	570.6	218.96	9.0	17.5	-8.6	-2.7
75.0	23108	153.1	0.14206	406.2	7.55	33.6	1.5263	217.5	573.6	217.54	10.3	46.6	-7.1	-7.5
76.0	23438	148.1	0.14823	394.6	7.69	31.9	1.5038	216.7	579.9	216.72	7.4	346.3	-7.2	1.8
77.0	23785	150.3	0.15468	400.0	8.24	30.2	1.4800	216.9	589.5	216.88	14.0	321.4	-11.0	8.8
77.1	23827	149.6	0.15545	398.2	8.26	30.0	1.4771	217.0	590.9	216.97	13.4	323.5	-10.8	8.0
78.0	24109	145.5	0.16062	386.1	8.40	28.7	1.4579	217.5	600.0	217.54	10.0	343.9	-9.6	2.8
79.0	24475	140.6	0.16709	371.6	8.60	27.1	1.4330	218.5	612.6	218.52	11.7	10.1	-11.5	-2.1

STATION WALLOPS IS LAUNCH DATE 12281 LAUNCH TIME 1621 GMT ECC SONDE 3A1499X

80.0	24813	131.1	0.17278	347.7	8.45	25.7	1.4099	217.7	619.7	217.71	18.0	2.0	-18.0	-0.6
80.5	24989	123.3	0.17547	327.1	8.16	25.0	1.3979	217.7	624.6	217.71	16.2	8.2	-16.1	-2.3
81.0	25170	115.4	0.17825	306.0	7.87	24.3	1.3856	217.7	629.7	217.71	14.7	16.2	-14.1	-4.1
82.0	25521	108.1	0.18308	285.3	7.79	23.0	1.3617	218.8	643.0	218.84	10.2	359.4	-10.2	0.1
83.0	25865	104.1	0.18756	273.4	7.91	21.8	1.3385	219.8	655.8	219.80	16.0	320.7	-12.4	10.1
84.0	26323	100.8	0.19333	265.1	8.22	20.3	1.3075	219.5	668.3	219.48	10.6	344.1	-10.2	2.9
84.2	26418	99.8	0.19449	263.0	8.27	20.0	1.3010	219.0	669.8	219.05	11.0	345.1	-10.6	2.8
85.0	26713	96.8	0.19808	256.8	8.40	19.1	1.2810	217.7	674.5	217.71	12.2	348.0	-11.9	2.5
86.0	27125	93.2	0.20294	248.6	8.63	17.9	1.2529	216.5	683.5	216.55	17.5	343.1	-16.8	5.1
86.3	27267	92.6	0.20459	247.7	8.77	17.5	1.2430	215.9	685.8	215.89	17.1	347.0	-16.7	3.8
87.0	27600	91.1	0.20843	245.5	9.10	16.6	1.2201	214.3	691.3	214.34	16.5	356.8	-16.5	0.9
88.0	27990	88.0	0.21282	236.6	9.34	15.6	1.1931	214.7	704.8	214.68	23.2	341.5	-22.0	7.4
88.6	28237	88.2	0.21554	235.7	9.75	15.0	1.1761	216.0	717.1	215.99	25.2	334.9	-22.8	10.7
89.0	28408	88.3	0.21742	235.2	10.03	14.6	1.1644	216.9	725.6	216.88	26.7	330.9	-23.3	13.0
90.0	28856	82.1	0.22220	220.6	10.00	13.6	1.1335	214.9	733.5	214.86	21.4	327.0	-17.9	11.6
91.0	29336	68.8	0.22674	185.0	9.05	12.6	1.1004	214.9	749.7	214.86	17.8	344.7	-17.2	4.7
91.1	29386	68.1	0.22715	182.8	9.02	12.5	1.0969	215.0	751.8	214.95	18.2	343.5	-17.5	5.2
92.0	29857	60.8	0.23097	162.6	8.69	11.6	1.0645	215.9	771.3	215.88	22.5	334.9	-20.3	9.5
93.0	30307	53.9	0.23421	145.0	8.26	10.8	1.0334	214.5	782.2	214.51	29.4	321.9	-23.2	18.2
94.0	30728	50.1	0.23696	134.7	8.22	10.1	1.0043	214.7	798.0	214.68	31.0	326.9	-26.0	16.9
94.1	30790	49.8	0.23734	133.9	8.25	10.0	1.0000	214.5	799.7	214.54	31.0	326.8	-25.9	16.9
95.0	31178	47.7	0.23973	129.0	8.41	9.4	0.9731	213.6	810.6	213.64	30.4	326.2	-25.3	16.9
96.0	31663	45.5	0.24257	122.6	8.67	8.7	0.9395	214.3	831.4	214.34	24.0	327.6	-20.3	12.9
97.0	32110	44.6	0.24511	120.5	9.12	8.1	0.9085	213.6	845.8	213.64	19.4	332.9	-17.3	8.8
97.2	32187	43.0	0.24550	116.1	8.89	8.0	0.9031	213.9	849.8	213.89	19.8	328.8	-17.0	10.3
98.0	32593	34.7	0.24752	93.0	7.66	7.5	0.8751	215.2	870.9	215.20	23.7	311.1	-15.6	17.9
98.8	33029	34.4	0.24940	91.8	8.14	7.0	0.8451	216.2	892.3	216.18	26.2	301.6	-13.7	22.3
99.0	33120	34.3	0.24979	91.6	8.24	6.9	0.8388	216.4	896.8	216.38	26.8	299.9	-13.3	23.2
100.0	33597	32.6	0.25178	86.6	8.45	6.4	0.8062	217.4	920.5	217.38	30.1	296.7	-13.5	26.9
100.7	34009	31.5	0.25339	83.3	8.71	6.0	0.7782	218.8	943.7	218.76	999.9	999.9	999.9	999.9
101.0	34226	31.0	0.25425	81.5	8.85	5.8	0.7634	219.5	955.9	219.48	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 12681 LAUNCH TIME 1851 GMT ECC SONDE 3A1512X

SURFACE CONDITIONS							
PRESS	1008.9 MB	OO3 = 27.3	TBOX CAL =	30.0 C	AT	75.3	ORD
TEMP	278.7 K	OIZ = 27.0	BASE CAL =	30.0 C	AT	74.1	ORD
HUMY	72.0 %	OZC = 56.1	HUMIDITY =	61.2 %	AT	46.0	ORD
		IO = 0.054					
		PS = 31.7					

	PROFILE	DOBSON
INTEGRATED OZONE	0.28635	
RESIDUAL OZONE	0.04893	
TOTAL OZONE	0.33529	0.30600

ADDITIONAL DOBSON INFORMATION

Observational Type	5
Wavelength	0
Air Mass	2.079
GMT	1900

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	47.3	0.	97.3	0.08	1008.9	3.0038	280.8	280.1	281.56	70.5	275.8	0.0045	10.0	190.0	9.8	1.7
0.5	77	46.4	0.00032	95.3	0.08	1000.0	3.0000	281.0	281.0	281.78	66.1	275.1	0.0043	12.7	204.2	11.6	5.2
1.0	160	45.4	0.00065	93.2	0.08	990.0	2.9956	281.3	282.1	282.04	61.1	274.3	0.0042	16.4	214.0	13.6	9.2
2.0	397	51.5	0.00179	105.3	0.09	962.0	2.9832	282.2	285.4	282.92	53.0	273.2	0.0040	19.4	226.0	13.5	13.9
3.0	597	52.2	0.00278	106.7	0.09	939.0	2.9727	282.6	287.7	283.21	44.7	271.2	0.0035	20.1	238.5	10.5	17.1
4.0	802	53.8	0.00382	109.6	0.10	916.0	2.9619	283.2	290.4	283.68	35.5	268.6	0.0030	21.6	244.6	9.3	19.5
4.7	948	52.7	0.00455	107.6	0.10	900.0	2.9542	282.8	291.4	283.32	37.6	269.0	0.0032	20.5	245.2	8.6	18.6
5.0	1013	52.2	0.00488	106.6	0.10	893.0	2.9509	282.6	291.9	283.16	38.5	269.2	0.0032	20.1	245.5	8.3	18.3
6.0	1210	44.1	0.00578	90.4	0.08	872.0	2.9405	281.7	292.9	282.16	34.7	267.0	0.0028	17.7	242.1	8.3	15.6
7.0	1420	45.4	0.00668	93.2	0.09	850.0	2.9294	281.1	294.5	281.64	37.0	267.4	0.0029	17.1	238.6	8.9	14.6
8.0	1626	41.9	0.00755	86.2	0.08	829.0	2.9186	280.4	295.9	280.83	30.9	264.4	0.0024	15.7	245.9	6.4	14.3
9.0	1826	34.0	0.00828	70.3	0.07	809.0	2.9079	279.5	297.0	279.94	32.7	264.3	0.0024	15.9	243.4	7.1	14.2
9.4	1917	33.7	0.00857	69.8	0.07	800.0	2.9031	278.9	297.2	279.27	33.7	264.1	0.0024	16.7	241.4	8.0	14.6
10.0	2041	33.3	0.00898	69.3	0.07	788.0	2.8965	278.0	297.5	278.36	35.1	263.8	0.0024	17.7	238.9	9.2	15.2
11.0	2260	33.3	0.00969	69.6	0.07	767.0	2.8848	276.6	298.4	276.94	33.5	262.0	0.0021	19.1	243.0	8.7	17.0
12.0	2495	33.8	0.01046	70.8	0.08	745.0	2.8722	275.4	299.6	275.72	30.5	259.8	0.0018	19.4	243.2	8.8	17.4
13.0	2714	33.4	0.01118	70.2	0.08	725.0	2.8603	274.4	300.8	274.66	25.7	256.9	0.0015	19.2	255.6	4.8	18.6
14.0	2927	32.1	0.01186	67.8	0.08	706.0	2.8488	273.6	302.2	274.10	54.5	265.5	0.0030	19.2	259.7	3.5	18.9
14.4	2995	30.7	0.01207	64.9	0.07	700.0	2.8451	273.2	302.5	273.71	56.7	265.6	0.0031	19.3	258.3	3.9	18.9
15.0	3122	28.1	0.01244	59.5	0.07	689.0	2.8382	272.5	303.1	272.99	60.7	265.8	0.0032	19.5	255.7	4.8	18.9
16.0	3380	27.9	0.01316	59.6	0.07	667.0	2.8241	270.7	303.9	271.19	61.1	264.2	0.0029	23.6	258.4	4.8	23.1

STATION WALLOPS IS LAUNCH DATE 12681 LAUNCH TIME 1851 GMT ECC SONDE 3A1512X

17.0	3634	27.3	0.01386	58.3	0.07	646.0	2.8102	270.9	306.9	271.31	53.6	262.7	0.0027	25.9	259.3	4.8	25.4
18.0	3870	25.7	0.01448	55.2	0.07	627.0	2.7973	268.8	307.2	269.21	50.4	260.1	0.0022	24.1	258.4	4.8	23.6
19.0	4099	25.8	0.01507	55.7	0.07	609.0	2.7846	267.3	308.0	267.68	53.3	259.4	0.0022	21.3	253.6	6.0	20.5
19.5	4215	26.6	0.01539	57.6	0.07	600.0	2.7782	266.6	308.5	266.97	55.0	259.1	0.0021	20.4	251.1	6.6	19.3
20.0	4346	27.5	0.01574	59.7	0.08	590.0	2.7709	265.8	309.1	266.17	56.8	258.7	0.0021	19.3	247.9	7.3	17.9
21.0	4586	24.2	0.01637	52.9	0.07	572.0	2.7574	264.2	309.9	264.58	68.1	259.4	0.0023	19.5	246.2	7.9	17.8
22.0	4818	24.3	0.01695	53.6	0.07	555.0	2.7443	261.6	309.5	261.99	86.0	259.7	0.0024	22.2	237.1	12.0	18.6
23.0	5056	23.8	0.01754	52.7	0.07	538.0	2.7308	260.5	310.9	260.88	96.2	260.0	0.0026	23.2	250.0	7.9	21.8
24.0	5286	25.0	0.01812	55.5	0.08	522.0	2.7177	259.6	312.6	259.91	70.6	255.4	0.0018	22.4	263.2	2.7	22.3
25.0	5492	24.9	0.01865	55.6	0.08	508.0	2.7059	258.1	313.2	258.34	67.4	253.4	0.0016	25.3	254.4	6.8	24.4
25.4	5611	23.6	0.01895	52.9	0.08	500.0	2.6990	257.1	313.4	257.35	67.7	252.5	0.0014	28.9	254.5	7.7	27.8
26.0	5763	21.9	0.01932	49.5	0.07	490.0	2.6902	255.9	313.7	256.10	68.0	251.4	0.0014	33.4	254.6	8.9	32.2
27.0	6042	21.5	0.01996	48.9	0.08	472.0	2.6739	253.9	314.6	254.04	67.8	249.[illegible]	0.0012	35.3	252.9	10.4	33.7
28.0	6313	23.5	0.02061	53.9	0.09	455.0	2.6580	251.8	315.4	251.98	60.9	246.3	0.0009	28.7	252.7	8.5	27.4
29.0	6559	22.8	0.02122	52.6	0.09	440.0	2.6435	249.7	315.7	249.82	56.0	243.4	0.0007	27.9	254.5	7.5	26.9
30.0	6811	19.4	0.02180	45.4	0.08	425.0	2.6284	247.2	315.7	247.32	68.5	243.2	0.0007	29.4	255.3	7.4	28.5
31.0	7105	19.4	0.02243	45.6	0.08	408.0	2.6107	245.8	317.5	245.91	100.0	245.8	0.0010	32.3	254.7	8.5	31.1
31.4	7246	18.8	0.02272	44.3	0.08	400.0	2.6021	244.8	318.1	244.98	100.0	244.8	0.0009	33.1	254.2	9.0	31.9
32.0	7428	18.0	0.02309	42.8	0.08	390.0	2.5911	243.7	318.9	243.79	100.0	243.7	0.0008	34.2	253.5	9.7	32.8
33.0	7745	14.0	0.02366	33.4	0.06	373.0	2.5717	242.0	320.7	242.05	82.0	239.9	0.0006	34.1	253.3	9.8	32.6
34.0	8054	15.4	0.02417	37.0	0.07	357.0	2.5527	239.7	321.8	239.79	54.9	233.8	0.0003	27.6	252.4	8.3	26.3
34.5	8192	16.1	0.02442	38.8	0.08	350.0	2.5441	238.9	322.4	238.93	52.8	232.6	0.0003	28.6	252.5	8.6	27.2
35.0	8333	16.8	0.02467	40.6	0.08	343.0	2.5353	238.0	323.1	238.07	50.8	231.5	0.0003	29.6	252.6	8.9	28.2
36.0	8600	22.2	0.02527	54.3	0.11	330.0	2.5185	235.4	323.1	235.40	43.2	227.5	0.0002	25.9	252.8	7.7	24.8
37.0	8940	20.8	0.02611	51.6	0.11	314.0	2.4969	232.7	324.0	232.69				23.8	252.3	7.2	22.6
38.0	9248	18.8	0.02682	47.2	0.10	300.0	2.4771	229.7	324.0	229.69				26.3	252.7	7.8	25.1
39.0	9590	17.4	0.02755	44.4	0.10	285.0	2.4548	226.3	324.0	226.33				20.9	253.3	6.0	20.0
40.0	9897	18.9	0.02822	48.8	0.11	272.0	2.4346	223.1	323.7	223.14				24.1	257.6	5.2	23.6
41.0	10190	18.7	0.02889	48.9	0.12	260.0	2.4150	220.4	323.9	220.43				28.1	262.2	3.8	27.8
41.8	10441	18.2	0.02946	48.1	0.12	250.0	2.3979	218.4	324.5	218.40				33.5	267.3	1.6	33.4
42.0	10519	18.0	0.02963	47.8	0.12	247.0	2.3927	217.8	324.7	217.78				35.2	268.6	0.9	35.2
43.0	10889	18.0	0.03046	48.3	0.13	233.0	2.3674	215.5	326.7	215.51				43.8	271.2	-0.9	43.8
44.0	11250	17.4	0.03126	46.9	0.13	220.0	2.3424	214.0	329.8	214.00				50.1	271.3	-1.2	56.1
45.0	11510	17.3	0.03184	47.3	0.14	211.0	2.3243	211.6	330.0	211.56				53.5	271.5	-1.4	53.5
46.0	11839	20.0	0.03262	55.2	0.17	200.0	2.3010	209.2	331.3	209.18				54.1	269.4	0.5	54.1
47.0	12185	23.4	0.03359	64.8	0.21	189.0	2.2765	208.8	336.1	208.81				58.2	269.3	0.8	58.2
48.0	12416	26.1	0.03433	71.8	0.24	182.0	2.2601	209.6	341.0	209.56				53.4	271.5	-1.4	53.4
49.0	12728	24.7	0.03534	67.6	0.24	173.0	2.2380	210.8	348.1	210.84				56.8	269.8	0.2	56.8
50.0	12946	29.8	0.03610	81.1	0.30	167.0	2.2227	211.9	353.4	211.91				48.4	270.8	-0.7	48.4
51.0	13212	38.7	0.03726	104.9	0.40	160.0	2.2041	213.0	359.5	212.97				37.9	269.1	0.6	37.9

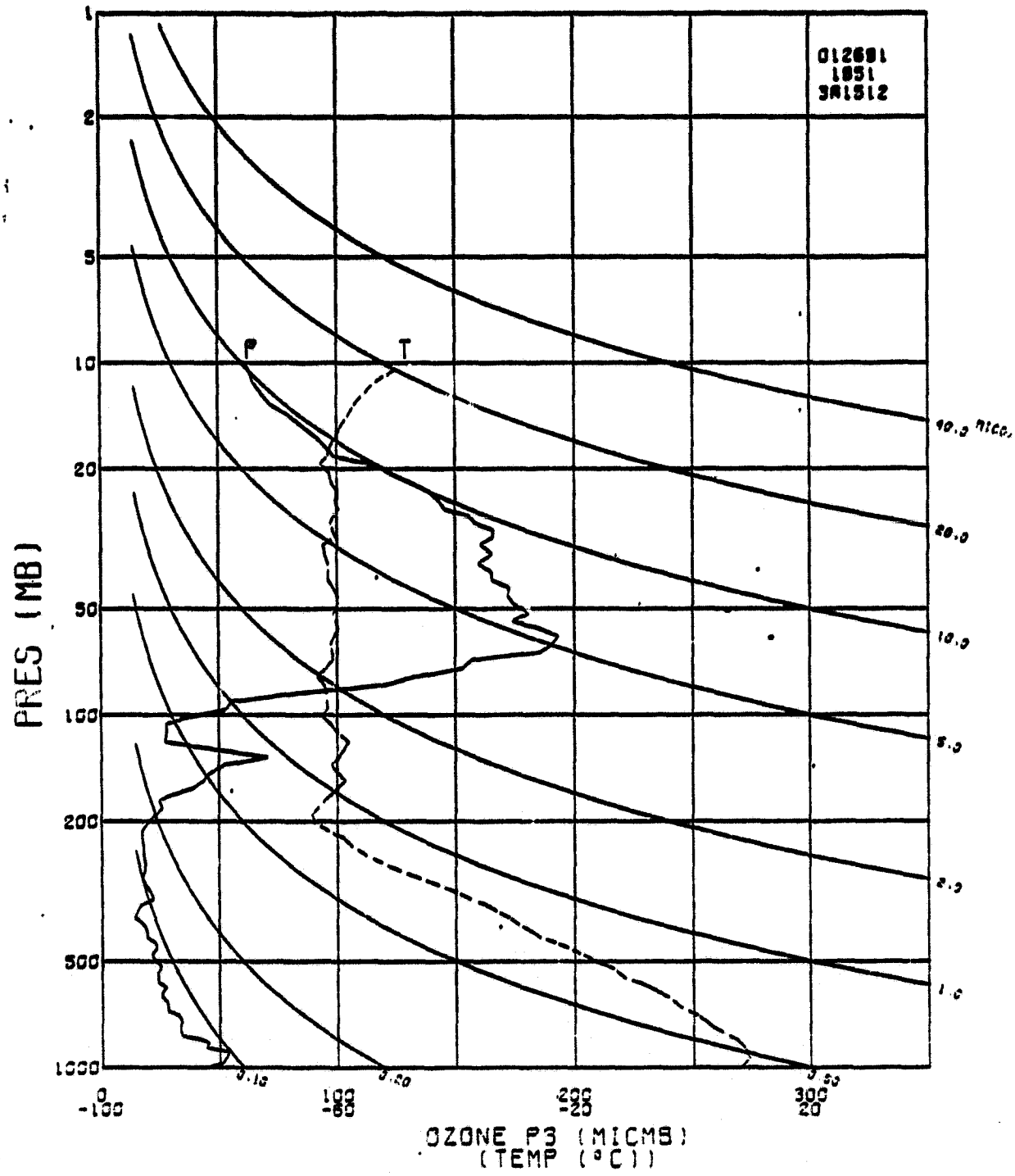
STATION WALLOPS IS LAUNCH DATE 12681 LAUNCH TIME 1851 GMT ECC SONDE 3A1512X

52.0	13532	43.7	0.03893	117.8	0.48	152.0	2.1818	214.3	367.2	214.34	41.6	262.5	5.4	41.2
52.3	13614	44.4	0.03940	119.6	0.49	150.0	2.1761	214.0	368.1	214.05	38.5	261.8	5.5	38.2
53.0	13827	46.0	0.04060	124.5	0.53	145.0	2.1614	213.3	370.4	213.31	30.8	259.5	5.6	30.3
54.0	14180	52.6	0.04280	143.1	0.64	137.0	2.1367	212.1	374.3	212.09	27.2	257.4	5.9	26.6
55.0	14506	70.5	0.04535	190.7	0.90	130.0	2.1139	213.3	382.1	213.31	29.2	254.7	7.7	28.2
55.8	14750	52.0	0.04718	140.3	0.69	125.0	2.0969	214.0	387.7	214.02	30.3	255.9	7.4	29.4
56.0	14801	48.2	0.04756	130.0	0.64	124.0	2.0934	214.2	388.8	214.17	30.5	256.2	7.3	29.6
57.0	15112	27.3	0.04904	73.3	0.38	118.0	2.0719	215.0	395.9	215.01	32.0	259.0	6.1	31.5
58.0	15495	28.0	0.05037	75.9	0.42	111.0	2.0453	213.1	399.4	213.14	35.8	259.7	6.4	35.2
59.0	15840	27.9	0.05160	76.1	0.44	105.0	2.0212	211.9	403.5	211.91	33.0	261.1	5.1	32.6
60.0	16141	38.3	0.05288	105.1	0.64	100.0	2.0000	210.7	406.7	210.66	25.8	260.7	4.2	25.4
61.0	16445	53.1	0.05465	145.0	0.92	95.2	1.9786	211.4	413.9	211.38	24.8	258.5	4.9	24.3
62.0	16758	55.8	0.05682	152.7	1.02	90.5	1.9566	210.8	418.8	210.84	22.0	259.7	3.9	21.7
63.0	17094	82.3	0.05979	225.1	1.59	85.7	1.9330	211.2	426.1	211.20	22.8	259.7	4.1	22.4
64.0	17427	120.3	0.06411	329.4	2.46	81.2	1.9096	210.8	432.0	210.84	23.4	259.7	4.2	23.1
64.3	17518	123.7	0.06559	339.4	2.57	80.0	1.9031	210.5	433.2	210.53	24.3	259.6	4.4	23.9
65.0	17754	132.6	0.06940	364.9	2.85	77.0	1.8865	209.7	436.3	209.74	26.6	259.3	4.9	26.1
66.0	18082	152.8	0.07541	417.8	3.47	73.0	1.8633	211.2	446.1	211.20	30.7	257.6	6.6	30.0
66.7	18341	156.0	0.08054	424.6	3.69	70.0	1.8451	212.1	453.5	212.10	28.9	257.6	6.2	28.2
67.0	18440	157.2	0.08248	427.1	3.78	68.9	1.8382	212.4	456.2	212.44	28.2	257.6	6.0	27.5
68.0	18735	185.5	0.08891	505.4	4.68	65.7	1.8176	211.9	461.3	211.91	4.5	274.4	-0.3	4.5
69.0	19044	190.6	0.09632	519.3	5.05	62.5	1.7959	211.9	467.9	211.91	2.3	322.4	-1.8	1.4
69.8	19297	192.5	0.10250	523.1	5.32	60.0	1.7782	212.5	474.7	212.46	2.1	299.1	-1.0	1.8
70.0	19370	193.0	0.10427	524.1	5.39	59.3	1.7731	212.6	476.6	212.62	2.1	291.9	-0.8	1.9
71.0	19704	184.7	0.11228	499.9	5.45	56.2	1.7497	213.3	485.5	213.31	10.5	57.9	-5.6	-8.9
72.0	19987	173.9	0.11871	472.2	5.37	53.7	1.7300	212.6	490.3	212.62	7.3	270.9	-0.1	7.3
73.0	20308	180.9	0.12593	491.5	5.88	51.0	1.7076	212.4	497.2	212.44	9.1	274.5	-0.7	9.1
73.4	20431	178.5	0.12871	484.6	5.92	50.0	1.6990	212.7	500.6	212.70	7.0	284.7	-1.8	6.7
74.0	20647	174.4	0.13356	472.5	5.98	48.3	1.6839	213.1	506.6	213.14	4.5	323.7	-3.6	2.7
75.0	21006	171.7	0.14141	465.2	6.24	45.6	1.6590	213.1	515.0	213.14	12.1	267.3	0.6	12.1
76.0	21342	172.4	0.14876	468.5	6.61	43.2	1.6355	212.4	521.3	212.44	15.7	268.6	0.4	15.7
77.0	21651	165.2	0.15539	450.8	6.66	41.1	1.6138	211.6	526.6	211.56	5.4	288.6	-1.7	5.1
77.5	21818	165.0	0.15893	450.4	6.84	40.0	1.6021	211.6	530.7	211.56	4.4	306.0	-2.6	3.5
78.0	21975	164.9	0.16222	450.0	7.01	39.0	1.5911	211.6	534.5	211.56	4.0	328.2	-3.4	2.1
79.0	22317	159.4	0.16930	434.9	7.16	36.9	1.5670	211.6	543.1	211.56	11.1	35.9	-9.2	-6.2
79.9	22643	164.4	0.17607	449.7	7.79	35.0	1.5441	211.1	550.1	211.10	12.0	298.5	-5.7	10.6
80.0	22697	165.3	0.17718	452.1	7.89	34.7	1.5403	211.0	551.3	211.02	14.3	291.2	-5.2	13.3
81.0	23101	160.2	0.18559	439.1	8.17	32.5	1.5119	210.7	560.7	210.66	21.3	275.3	-2.0	21.2
82.0	23394	16[illegible].7	0.19166	449.5	8.85	31.0	1.4914	212.8	574.1	212.79	19.4	280.0	-3.4	19.1
82.7	23597	165.8	0.19595	450.4	9.16	30.0	1.4771	212.5	578.8	212.54	8.6	345.8	-8.3	2.1

STATION WALLOPS IS LAUNCH DATE 12681 LAUNCH TIME 1851 GMT ECC SONDE 3A1512X

83.0	23681	165.8	0.19771	450.7	9.28	29.6	1.4713	212.4	580.8	212.44	11.5	25.0	-10.4	-4.9
84.0	23960	158.1	0.20345	430.7	9.26	28.3	1.4518	211.9	586.8	211.91	20.3	45.9	-14.1	-14.6
85.0	24252	155.4	0.20926	422.6	9.54	27.0	1.4314	212.3	595.7	212.27	11.0	13.4	-10.7	-2.6
86.0	24535	145.5	0.21466	393.8	9.34	25.8	1.4116	213.3	606.5	213.31	9.5	353.3	-9.4	1.1
86.5	24731	144.1	0.21824	390.7	9.56	25.0	1.3979	213.0	611.2	213.04	11.0	340.2	-10.3	3.7
87.0	24908	142.9	0.22147	387.8	9.75	24.3	1.3856	212.8	615.5	212.79	12.7	331.4	-11.2	6.1
88.0	25250	138.5	0.22758	375.1	9.98	23.0	1.3617	213.1	626.2	213.14	12.5	330.2	-10.9	6.2
89.0	25612	131.4	0.23377	357.7	10.03	21.7	1.3365	212.1	633.6	212.09	13.4	324.0	-10.8	7.9
90.0	26025	121.9	0.24044	332.4	9.95	20.3	1.3075	211.7	644.7	211.74	14.9	355.4	-14.8	1.2
90.3	26116	120.1	0.24183	328.1	9.95	20.0	1.3010	211.4	646.3	211.35	16.2	4.7	-16.2	-1.3
91.0	26369	115.2	0.24565	316.3	9.94	19.2	1.2833	210.3	650.6	210.29	21.5	22.5	-19.9	-8.2
92.0	26699	98.2	0.25016	268.1	8.94	18.2	1.2601	211.6	664.6	211.56	23.8	16.7	-22.8	-6.9
92.7	26941	96.2	0.25315	262.2	9.11	17.5	1.2430	211.8	672.9	211.81	22.5	9.7	-22.2	-3.8
93.0	27049	95.3	0.25447	259.6	9.18	17.2	1.2355	211.9	676.5	211.91	22.1	6.4	-21.9	-2.5
94.0	27421	91.3	0.25888	247.8	9.34	16.2	1.2095	212.8	691.1	212.79	23.0	347.8	-22.5	4.9
95.0	27860	86.0	0.26380	232.4	9.44	15.1	1.1790	213.7	708.0	213.65	23.0	336.1	-21.1	9.3
95.1	27901	85.4	0.26423	230.8	9.44	15.0	1.1761	213.8	709.7	213.77	22.8	337.0	-21.0	8.9
96.0	28334	79.7	0.26874	214.1	9.44	14.0	1.1461	215.0	728.0	215.01	20.8	347.1	-20.2	4.6
97.0	28801	72.1	0.27318	192.5	9.19	13.0	1.1139	216.2	747.6	216.16	21.3	349.1	-20.9	4.0
97.5	29049	69.9	0.27535	186.1	9.27	12.5	1.0969	217.0	759.1	217.03	21.6	345.2	-20.9	5.5
98.0	29309	67.7	0.27760	179.4	9.35	12.0	1.0792	217.9	771.2	217.94	22.1	341.3	-20.9	7.1
99.0	29751	64.5	0.28119	169.3	9.54	11.2	1.0492	219.8	793.3	219.82	22.2	347.2	-21.6	4.9
100.0	30046	63.4	0.28350	165.2	9.83	10.7	1.0294	221.8	810.9	221.80	25.3	349.5	-24.9	4.6
101.0	30422	62.0	0.28635	159.7	10.17	10.1	1.0043	224.0	832.7	224.02	999.9	999.9	999.9	999.9

ORIGINAL PAGE IS
OF POOR QUALITY



WALLOPS IS ECC

STATION WALLOPS IS LAUNCH DATE 12881 LAUNCH TIME 1504 GMT ECC SONDE 3A1514X

SURFACE CONDITIONS					
PRESS	1013.8 MB	OOZ = 28.2	TBOX CAL =	30.0 C	AT 74.7 ORD
TEMP	277.6 K	OIZ = 28.0	BASE CAL =	30.0 C	AT 74.1 ORD
HUMY	57.0 %	OZC = 57.3	HUMIDITY =	61.2 %	AT 46.0 ORD
		IO = 0.037			
		PS = 30.2			

	PROFILE	DOBSON
INTEGRATED OZONE	0.21277	
RESIDUAL OZONE		
TOTAL OZONE		0.34400

ADDITIONAL DOBSON INFORMATION

Observation Type: 5
Wavelength: 0
Air Mass: 1.905
GMT: 1600

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	-1.3	0.	-2.8	-0.00	1013.8	3.0060	278.0	276.9	278.50	60.6	271.0	0.0032	7.0	10.0	-6.9	-1.2
0.5	115	0.8	0.00001	1.6	0.00	1000.0	3.0000	276.9	276.9	277.45	60.4	270.0	0.0029	7.6	13.1	-7.4	-1.7
1.0	246	3.2	0.00002	6.8	0.01	984.0	2.9930	275.7	277.0	276.21	60.1	268.8	0.0028	8.3	16.1	-8.0	-2.3
2.0	479	4.5	0.00011	9.5	0.01	956.0	2.9805	275.2	278.8	275.71	60.1	268.3	0.0028	6.3	17.7	-6.0	-1.9
3.0	709	12.3	0.00030	25.9	0.02	929.0	2.9680	274.2	280.1	274.64	52.3	265.6	0.0023	4.1	15.8	-3.9	-1.1
4.0	945	25.0	0.00073	52.9	0.05	902.0	2.9552	272.8	280.9	273.01	33.9	258.8	0.0014	5.4	14.2	-5.3	-1.3
4.1	962	25.2	0.00078	53.4	0.05	900.0	2.9542	272.7	281.0	272.93	34.9	259.0	0.0014	5.4	13.1	-5.2	-1.2
5.0	1196	28.1	0.00140	59.8	0.05	874.0	2.9415	271.5	282.2	271.81	47.7	261.9	0.0018	4.4	354.5	-4.4	0.4
5.9	1416	17.9	0.00189	38.4	0.03	850.0	2.9294	270.1	282.9	270.54	72.7	265.8	0.0027	2.6	300.7	-1.3	2.2
6.0	1445	16.7	0.00195	35.6	0.03	847.0	2.9279	269.9	283.0	270.37	75.8	266.3	0.0027	2.6	290.8	-0.9	2.5
7.0	1701	20.0	0.00242	42.9	0.04	820.0	2.9138	269.2	284.9	269.72	100.0	269.2	0.0034	4.6	269.7	0.0	4.6
7.7	1894	25.8	0.00289	55.5	0.05	800.0	2.9031	268.4	286.0	268.79	77.4	264.9	0.0024	5.3	285.9	-1.5	5.1
8.0	1964	27.8	0.00305	60.0	0.06	793.0	2.8993	268.1	286.5	268.46	69.4	263.4	0.0023	5.7	290.5	-2.0	5.3
9.0	2215	30.9	0.00379	66.5	0.07	768.0	2.8854	267.8	288.8	268.15	68.6	262.9	0.0023	12.0	276.3	-1.3	12.0
10.0	2474	33.2	0.00463	72.0	0.07	743.0	2.8710	266.6	290.2	266.83	50.3	258.0	0.0016	19.1	259.6	3.4	18.8
11.0	2741	34.4	0.00554	74.6	0.08	718.0	2.8561	266.4	292.9	266.83	78.6	263.3	0.0025	19.3	249.0	6.9	18.0
11.7	2937	34.5	0.00623	75.3	0.08	700.0	2.8451	264.7	293.1	265.09	85.8	262.7	0.0024	19.4	245.6	8.0	17.7
12.0	3027	34.6	0.00655	75.6	0.08	692.0	2.8401	263.9	293.2	264.30	89.1	262.4	0.0024	19.5	244.1	8.5	17.5
13.0	3299	35.1	0.00752	77.1	0.09	668.0	2.8248	262.6	294.7	262.84	57.7	255.9	0.0015	18.7	245.0	7.9	16.9
14.0	3591	32.1	0.00853	71.0	0.08	643.0	2.8082	260.9	296.0	261.05	43.2	251.0	0.0010	19.6	253.3	5.6	18.8
15.0	3869	29.7	0.00942	65.8	0.08	620.0	2.7924	260.5	298.6	260.63	44.6	251.0	0.0010	21.8	257.2	4.8	21.3

STATION WALLOPS IS LAUNCH DATE 12881 LAUNCH TIME 1504 GMT ECC SONDE 3A1514X

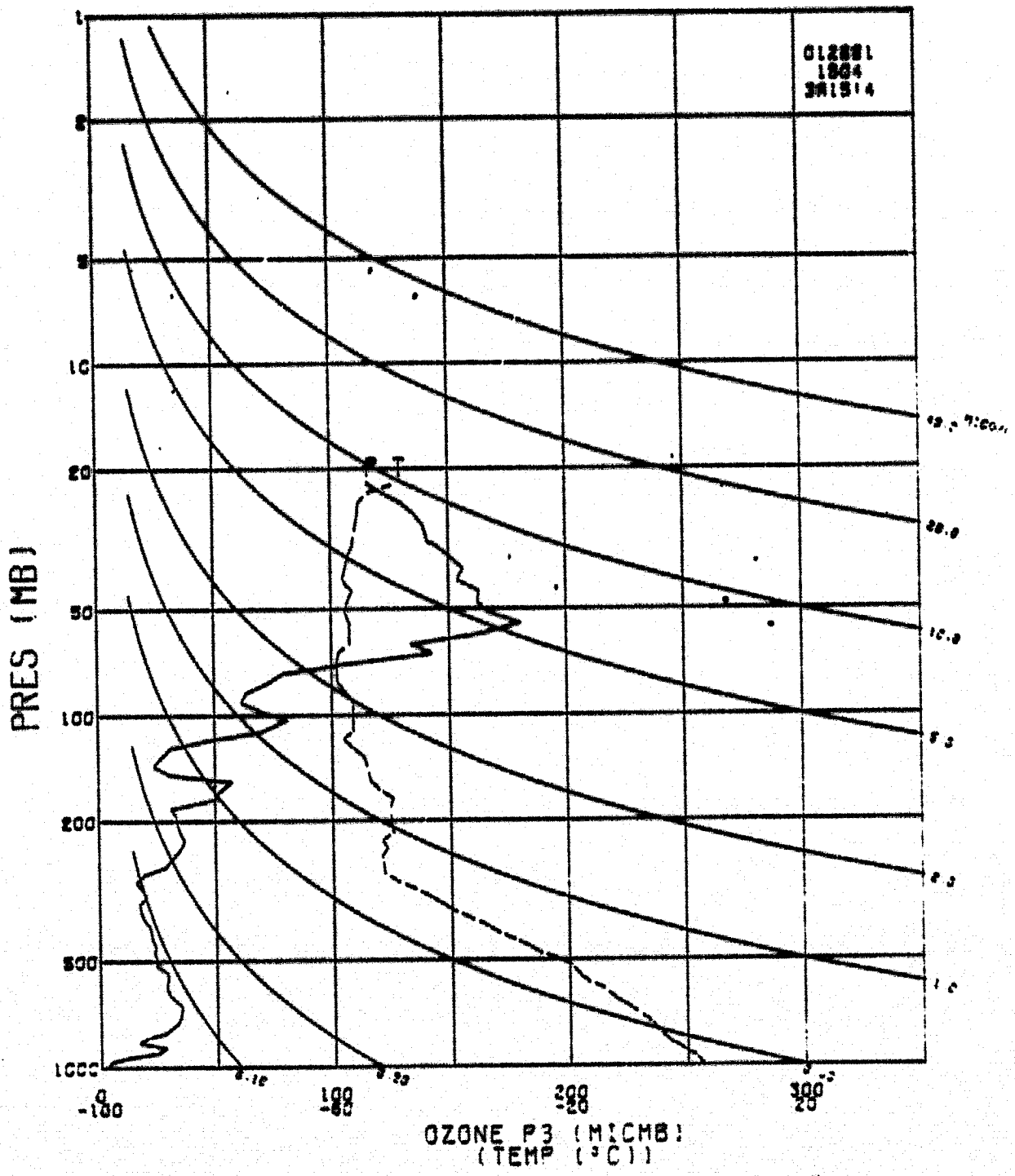
15.9	4117	28.6	0.01017	63.8	0.08	600.0	2.7782	258.8	299.5	259.00	55.[illegible]	251.8	0.0012	22.9	259.9	4.0	22.6
16.0	4143	28.5	0.01025	63.6	0.08	598.0	2.7767	258.6	299.6	258.83	56.4	251.9	0.0012	23.0	260.2	3.9	22.7
17.0	4438	28.7	0.01113	64.6	0.08	575.0	2.7597	256.3	300.2	256.46	59.1	250.2	0.0010	24.8	263.2	2.9	24.6
18.0	4703	29.2	0.01194	66.0	0.09	555.0	2.7443	255.1	301.8	255.25	69.7	250.9	0.0011	29.4	254.7	7.7	28.4
19.0	4977	28.7	0.01277	64.9	0.09	535.0	2.7284	255.1	305.0	255.26	71.7	251.2	0.0012	33.7	242.5	15.6	29.9
20.0	5289	24.4	0.01365	55.7	0.08	513.0	2.7101	253.2	306.4	253.35	73.0	249.6	0.0011	33.7	231.9	20.8	26.5
20.6	5478	24.4	0.01415	56.0	0.08	500.0	2.6990	251.7	306.8	251.86	72.3	248.1	0.0009	33.2	232.6	20.2	26.3
21.0	5582	24.4	0.01442	56.2	0.08	493.0	2.6928	25[illegible]	307.1	251.05	71.9	247.2	0.0009	32.8	232.9	19.8	26.2
22.0	5884	23.4	0.01520	54.5	0.08	473.0	2.6749	246.0	307.1	248.11	73.0	244.6	0.0008	35.2	224.6	25.1	24.7
23.0	6196	24.0	0.01601	56.4	0.09	453.0	2.6561	246.0	308.5	246.12	73.1	242.7	0.0007	36.3	214.5	29.9	20.5
24.0	6486	22.8	0.01676	54.0	0.09	435.0	2.6385	243.7	309.1	243.75	71.5	240.2	0.0005	37.5	221.6	28.1	24.9
25.0	6803	22.2	0.01755	53.1	0.09	416.0	2.6191	241.0	309.7	241.11	69.7	237.4	0.0004	36.2	221.2	28.8	25.1
25.8	7078	21.6	0.01823	52.1	0.09	400.0	2.6021	239.4	311.0	239.45	69.0	235.7	0.0004	41.0	222.6	30.2	27.8
26.0	7131	21.5	0.01836	51.9	0.09	397.0	2.5988	239.1	311.3	239.13	68.9	235.4	0.0004	41.6	222.9	30.5	28.3
27.0	7472	19.2	0.01914	46.8	0.08	378.0	2.5775	236.3	312.0	236.35	66.3	232.3	0.0003	44.5	228.0	29.8	33.1
28.0	7807	17.9	0.01986	44.2	0.08	360.0	2.5563	233.5	312.7	233.53	63.0	229.2	0.0002	50.4	230.8	31.8	39.1
28.5	7998	17.5	0.02025	43.5	0.08	350.0	2.5441	232.3	3.3.6	232.33				48.7	230.9	30.8	37.8
29.0	8156	17.2	0.02057	43.0	0.08	342.0	2.5340	231.3	314.3	231.34				47.3	230.9	29.[illegible]	36.7
30.0	8458	20.2	0.02123	50.9	0.10	327.0	2.5145	229.4	315.7	229.41				44.8	234.1	26.3	36.3
31.0	8814	18.4	0.02204	46.8	0.10	310.0	2.4914	226.8	316.9	226.75				58.8	238.1	31.1	49.9
31.7	9030	16.6	0.02249	42.6	0.09	300.0	2.4771	224.8	317.1	224.81				59.7	237.9	31.8	50.6
32.0	9119	15.9	0.02267	40.9	0.09	296.0	2.4713	224.0	317.2	224.02				60.1	237.8	32.0	50.9
33.0	9481	20.1	0.02346	52.3	0.12	280.0	2.4472	221.8	319.1	221.80				59.8	237.6	32.1	50.5
34.0	9789	28.6	0.02437	74.4	0.18	267.0	2.4265	221.9	323.7	221.95				53.4	234.4	31.1	43.4
35.0	10190	32.1	0.02585	83.8	0.21	251.0	2.3997	221.3	328.5	221.35				52.0	242.8	23.8	46.2
35.1	10215	32.3	0.02596	84.3	0.21	250.0	2.3979	221.4	329.0	221.41				52.0	243.3	23.3	46.5
36.0	10535	34.9	0.02726	90.8	0.24	238.0	2.3766	222.2	334.9	222.25				52.8	250.3	17.8	49.7
37.0	10900	36.[illegible]	0.02885	95.6	0.27	225.0	2.3522	221.5	339.2	221.50				56.9	244.8	24.2	51.5
38.0	11226	34.8	0.03026	90.1	0.27	214.0	2.3304	223.3	346.9	223.29				50.7	241.5	24.2	44.5
39.0	11603	33.7	0.03182	87.2	0.28	202.0	2.3054	223.0	352.2	222.99				48.3	241.7	22.9	42.5
39.2	11667	33.6	0.03208	87.0	0.28	200.0	2.3010	222.9	353.1	222.93				48.3	242.0	22.7	42.7
40.0	11934	33.2	0.03316	86.0	0.29	192.0	2.2833	222.7	356.8	222.69				48.7	243.3	21.9	43.5
41.0	12283	30.8	0.03451	79.9	0.28	182.0	2.2601	222.8	362.6	222.84				42.4	245.5	17.6	38.6
42.0	12690	49.8	0.03649	128.9	0.48	171.0	2.2330	223.3	369.8	223.29				42.3	246.3	16.6	38.9
43.0	13041	52.6	0.03868	137.5	0.54	162.0	2.2095	221.0	371.8	221.04				42.7	246.8	16.8	39.3
44.0	13409	57.3	0.04116	150.5	0.62	153.0	2.1847	219.7	375.6	219.66				39.9	248.6	14.6	37.2
44.4	13536	45.9	0.04184	120.6	0.50	150.0	2.1761	219.8	377.9	219.79				38.9	249.3	13.7	36.4
45.0	13710	30.4	0.04278	79.7	0.34	146.0	2.1644	220.0	381.2	219.97				37.6	250.4	12.6	35.4
46.0	14072	23.9	0.04398	62.9	0.29	138.0	2.1399	218.9	385.4	218.89				39.4	252.7	11.7	37.6
47.0	14454	27.3	0.04519	72.1	0.35	130.0	2.1139	218.4	391.2	218.41				38.0	255.1	9.8	36.7

STATION WALLOPS IS LAUNCH DATE 12881 LAUNCH TIME 1504 GMT ECC SONDE 3A1514X

47.6	14703	29.7	0.04609	79.1	0.40	125.0	2.0969	217.1	393.3	217.13	36.8	256.4	8.6	35.8
48.0	14858	31.2	0.04665	83.4	0.42	122.0	2.0864	216.3	394.6	216.33	36.1	257.3	7.9	35.2
49.0	15176	47.7	0.04822	128.1	0.68	116.0	2.0645	215.0	397.9	215.01	38.4	257.3	8.4	37.5
50.0	15511	69.9	0.05069	186.2	1.05	110.0	2.0414	216.7	407.1	216.65	36.1	259.1	6.8	35.4
51.0	15990	80.7	0.05517	215.1	1.31	102.0	2.0086	216.7	415.9	216.65	38.1	259.3	7.1	37.5
51.4	16115	76.7	0.05635	204.2	1.27	100.0	2.0000	216.8	418.6	216.78	38.6	258.1	7.9	37.8
52.0	16309	70.4	0.05817	187.3	1.20	97.0	1.9868	217.0	422.6	216.98	39.3	256.3	9.3	38.2
53.0	16714	61.5	0.06149	163.8	1.12	91.0	1.9590	216.7	429.7	216.65	37.7	256.4	8.8	36.7
54.0	17123	63.6	0.06468	170.5	1.24	85.3	1.9309	215.3	435.1	215.34	34.7	253.9	9.6	33.3
55.0	17526	72.8	0.06815	196.4	1.51	80.0	1.9031	214.0	440.5	214.05	30.1	251.2	9.7	28.5
55.0	17542	73.2	0.06828	197.4	1.52	79.8	1.9020	214.0	440.7	214.00	30.0	251.0	9.7	28.3
56.0	17922	79.6	0.07194	215.0	1.76	75.1	1.8756	213.8	448.0	213.83	22.9	253.7	6.4	22.0
57.0	18300	105.9	0.07636	286.1	2.48	70.7	1.8494	213.8	455.8	213.83	18.9	255.5	4.7	18.3
57.1	18362	111.3	0.07733	300.5	2.64	70.0	1.8451	213.9	457.2	213.88	18.3	257.0	4.1	17.9
58.0	18721	142.3	0.08295	383.6	3.57	66.1	1.8202	214.2	465.4	214.17	15.5	267.7	0.6	15.5
59.0	19114	133.6	0.08975	357.0	3.57	62.1	1.7931	216.2	478.2	216.16	8.6	293.0	-3.3	7.9
59.5	19331	149.1	0.09379	398.2	4.13	60.[illegible]	[illegible].7782	216.2	483.0	216.16	8.5	291.8	-3.1	7.9
60.0	19535	163.5	0.09755	436.8	4.66	58.[illegible]	[illegible].7642	216.2	487.4	216.16	8.3	290.6	-2.9	7.8
61.0	19974	180.1	0.10697	481.1	5.51	54.2	1.7340	216.2	497.2	216.16	5.6	302.3	-3.0	4.7
62.0	20433	166.1	0.11690	445.5	5.46	50.4	1.7024	215.3	505.7	215.34	11.4	253.1	3.3	10.9
62.1	20483	165.6	0.11794	444.0	5.49	50.0	1.6990	215.4	507.0	215.40	10.8	255.5	2.7	10.4
63.0	20833	162.1	0.12512	433.5	5.68	47.3	1.6749	215.8	516.1	215.84	7.0	284.8	-1.8	6.8
64.0	21276	162.6	0.13410	433.4	6.11	44.1	1.6444	216.7	528.5	216.65	7.4	307.3	-4.5	5.9
65.0	21736	153.5	0.14319	412.1	6.20	41.0	1.6128	215.0	535.6	215.01	20.1	42.1	-14.9	-13.5
65.3	21891	154.2	0.14620	413.8	6.39	40.0	1.6021	215.2	539.8	215.17	18.0	39.3	-13.9	-11.4
66.0	22215	155.8	0.15246	417.3	6.79	38.0	1.5798	215.5	548.6	215.51	13.9	31.1	-11.9	-7.2
67.0	22680	150.5	0.16136	402.3	7.07	35.3	1.5478	216.0	561.5	216.00	6.7	307.9	-4.1	5.3
67.1	22734	149.8	0.16236	400.3	7.09	35.0	1.5441	216.1	563.2	216.10	6.2	327.0	-5.2	3.4
68.0	23145	144.6	0.16992	385.2	7.31	32.8	1.5159	216.8	575.6	216.82	17.5	40.9	-13.3	-11.5
69.0	23341	141.0	0.17341	375.6	7.35	31.8	1.5024	216.8	580.7	216.82	8.9	16.3	-8.6	-2.5
69.6	23711	139.8	0.17984	371.7	7.73	30.0	1.4771	217.2	591.5	217.18	6.9	345.5	-6.6	1.7
70.0	23993	138.9	0.18474	368.7	8.02	28.7	1.4579	217.5	599.8	217.46	7.1	316.2	-5.2	4.9
71.0	24453	135.5	0.19255	359.2	8.41	26.7	1.4265	217.8	613.2	217.78	7.9	346.0	-7.6	1.9
71.9	24872	130.6	0.19945	346.0	8.66	25.0	1.3979	217.9	625.2	217.92	21.6	40.0	-16.5	-13.9
72.0	24924	130.0	0.20029	344.4	8.69	24.8	1.3945	217.9	626.7	217.94	23.6	41.9	-17.6	-15.8
73.0	25351	122.3	0.20692	321.6	8.73	23.2	1.3655	219.5	643.4	219.51	29.0	40.0	-22.2	-18.6
74.0	25755	115.7	0.21277	298.0	8.79	21.8	1.3385	224.2	668.8	224.17	999.9	999.9	999.9	999.9

*** TOTAL INTEGRATED OZONE INVALID ***
*** BALLOON SHORT OF 20 MB HEIGHT ***

ORIGINAL PAGE IS
OF POOR QUALITY



WALLOPS IS ECC

STATION WALLOPS IS LAUNCH DATE 13081 LAUNCH TIME 1631 GMT ECC SONDE 3A1515X

SURFACE CONDITIONS
PRESS 1029.0 MB
TEMP 271.2 K
HUMY 46.0 %

O03 = 28.2
OIZ = 27.8
OZC = 57.0
IO = 0.071
PS = 30.6

TBOX CAL = 30.0 C AT 75.8 ORD
BASE CAL = 30.0 C AT 73.5 ORD
HUMIDITY = 61.5 % AT 46.0 ORD

****
****
****
****
****
****
****
****
****

	PROFILE	DOBSON
INTEGRATED OZONE	0.30705	
RESIDUAL OZONE	0.02671	
TOTAL OZONE	0.33376	0.

ADDITIONAL DOBSON INFORMATION

Dobson	0.324
Observational Type	0
Wavelength	0
Air Mass	1.879
GMT	1600

ADDITIONAL DOBSON INFORMATION

Dobson	0.323
Observational Type	4
Wavelength	0
Air Mass	1.753
GMT	1700

ORIGINAL PAGE IS OF POOR QUALITY

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	13.3	0.	28.3	0.02	1029.0	3.0124	270.9	268.7	271.18	50.9	262.1	0.0016	6.0	330.0	-5.2	3.0
1.0	120	12.7	0.00015	27.2	0.02	1014.0	3.0060	269.1	268.0	269.33	59.0	262.3	0.0016	6.8	327.3	-5.7	3.7
1.5	229	13.3	0.00030	28.7	0.02	1000.0	3.0000	268.2	268.2	268.49	60.0	261.7	0.0016	7.3	324.8	-6.0	4.2
2.0	340	14.0	0.00045	30.2	0.02	986.0	2.9939	267.4	268.5	267.64	60.9	261.1	0.0015	7.8	322.6	-6.2	4.7
3.0	524	14.7	0.00071	31.8	0.03	963.0	2.9836	265.8	268.6	265.97	60.8	259.5	0.0014	7.0	314.7	-4.9	5.0
4.0	703	15.6	0.00099	34.1	0.03	941.0	2.9736	264.3	268.9	264.52	69.8	259.8	0.0014	6.1	310.4	-4.0	4.7
5.0	894	20.1	0.00134	44.2	0.04	918.0	2.9628	263.0	269.5	263.16	60.3	256.8	0.0011	5.2	322.0	-4.1	3.2
5.7	1046	30.5	0.00176	67.0	0.06	900.0	2.9542	262.9	270.9	263.04	54.4	255.4	0.0010	6.5	326.3	-5.4	3.6
6.0	1098	34.0	0.00190	74.8	0.06	894.0	2.9513	262.8	271.4	263.00	52.5	255.0	0.0010	6.9	327.3	-5.8	3.7
7.0	1290	36.5	0.00260	80.1	0.07	872.0	2.9405	263.1	273.6	263.27	45.3	253.6	0.0009	9.5	325.4	-7.8	5.4
7.9	1486	36.4	0.00333	79.9	0.07	850.0	2.9294	262.9	275.4	263.00	42.2	252.5	0.0009	9.8	319.0	-7.4	6.4
8.0	1505	36.4	0.00340	79.9	0.07	848.0	2.9284	262.8	275.5	262.97	42.0	252.4	0.0009	9.8	318.4	-7.3	6.5
9.0	1725	36.0	0.00422	79.4	0.07	824.0	2.9159	262.0	276.9	262.09	35.5	249.8	0.0007	9.5	307.4	-5.8	7.6
10.0	1942	35.4	0.00502	78.1	0.07	801.0	2.9036	261.5	278.7	261.65	32.5	248.4	0.0006	12.0	303.1	-6.6	10.0
10.0	1951	35.3	0.00505	78.0	0.07	800.0	2.9031	261.5	278.8	261.64	32.4	248.4	0.0006	12.1	303.0	-6.6	10.1
11.0	2204	34.1	0.00596	75.3	0.07	774.0	2.8887	261.4	281.3	261.51	31.3	247.8	0.0006	14.2	299.6	-7.0	12.3
12.0	2444	32.2	0.00678	71.4	0.07	750.0	2.8751	260.6	282.9	260.65	31.7	247.2	0.0006	14.8	296.5	-6.6	13.3
13.0	2691	32.8	0.00761	73.1	0.07	726.0	2.8609	259.2	284.0	259.25	32.5	246.3	0.0006	16.4	293.1	-6.4	15.1
14.0	2956	32.4	0.00852	72.7	0.08	701.0	2.8457	257.8	285.3	257.85	33.3	245.3	0.0005	17.0	291.6	-6.2	15.8
14.0	2966	32.4	0.00855	72.6	0.08	700.0	2.8451	257.7	285.4	257.80	33.3	245.2	0.0005	17.1	291.6	-6.3	15.9
15.0	3207	31.2	0.00935	70.2	0.08	678.0	2.8312	256.5	286.6	256.61	34.0	244.4	0.0005	19.9	291.5	-7.3	18.5

STATION WALLOPS IS LAUNCH DATE 13081 LAUNCH TIME 1631 GMT ECC SONDE 3A1515X

16.0	3477	31.8	0.01025	71.7	0.08	654.0	2.8156	256.4	289.5	256.47	34.8	244.5	0.0005	23.6	288.2	-7.3	22.4
17.0	3733	34.3	0.01114	77.3	0.09	632.0	2.8007	256.1	292.0	256.20	35.5	244.5	0.0006	26.9	282.3	-5.7	26.2
18.0	3998	35.5	0.01212	80.3	0.10	610.0	2.7853	255.2	293.9	255.24	36.1	243.8	0.0005	30.1	276.8	-3.6	29.9
18.4	4120	34.0	0.01256	77.2	0.09	600.0	2.7782	254.5	294.5	254.60	36.3	243.3	0.0005	31.2	276.1	-3.3	31.0
19.0	4284	32.1	0.01314	73.0	0.09	587.0	2.7686	253.7	295.4	253.75	36.5	242.6	0.0005	32.6	275.3	-3.0	32.5
20.0	4540	30.9	0.01401	70.8	0.09	567.0	2.7536	252.3	296.7	252.40	37.1	241.5	0.0005	39.1	275.7	-3.9	38.9
21.0	4832	27.2	0.01491	62.1	0.08	545.0	2.7364	252.7	300.6	252.81	37.4	242.0	0.0005	40.2	273.7	-2.6	40.1
22.0	5122	25.3	0.01573	58.1	0.08	524.0	2.7193	251.4	302.4	251.46	37.7	240.9	0.0005	41.1	274.4	-3.1	41.0
23.0	5407	26.6	0.01652	61.4	0.09	504.0	2.7024	249.7	303.6	249.72	37.9	239.3	0.0004	44.6	274.1	-3.2	44.5
23.2	5465	26.5	0.01669	61.4	0.09	500.0	2.6990	249.3	303.9	249.35	38.0	239.0	0.0004	44.7	273.2	-2.5	44.6
24.0	5702	26.2	0.01737	61.1	0.09	484.0	2.6848	247.8	304.9	247.86	38.5	237.8	0.0004	45.2	269.8	0.2	45.2
25.0	6007	26.2	0.01824	61.6	0.09	464.0	2.6665	245.8	306.1	245.87	38.4	236.0	0.0003	49.2	268.7	1.1	49.2
26.0	6322	24.9	0.01913	59.2	0.09	444.0	2.6474	243.4	307.0	243.48	38.8	233.9	0.0003	46.9	272.2	-1.8	46.9
27.0	6615	26.8	0.01997	64.3	0.10	426.0	2.6294	240.9	307.5	240.97	39.7	231.9	0.0002	47.5	277.8	-6.5	47.1
28.0	6935	24.9	0.02090	60.2	0.10	407.0	2.6096	239.2	309.3	239.24	40.3	230.4	0.0002	61.9	276.5	-7.0	61.5
28.4	7055	24.2	0.02123	58.6	0.10	400.0	2.6021	238.2	309.5	238.22	40.5	229.5	0.0002	62.2	275.0	-5.5	62.0
29.0	7250	23.0	0.02176	56.2	0.10	389.0	2.5899	236.5	309.8	236.57	40.7	228.1	0.0002	62.9	272.8	-3.1	62.8
30.0	7595	24.5	0.02270	60.5	0.11	370.0	2.5682	234.4	311.4	234.41	40.8	226.1	0.0001	68.4	270.8	-1.0	68.3
31.0	7935	21.4	0.02360	53.3	0.10	352.0	2.5465	231.2	311.6	231.24				67.2	270.2	-0.2	67.2
31.1	7973	21.4	0.02370	53.4	0.10	350.0	2.5441	230.9	311.7	230.91				67.7	270.3	-0.4	67.7
32.0	8228	21.3	0.02434	53.9	0.10	337.0	2.5276	228.7	312.1	228.72				71.0	271.2	-1.4	71.0
33.0	8573	20.7	0.02519	52.5	0.11	320.0	2.5051	227.4	315.0	227.44				70.7	273.1	-3.8	70.6
34.0	8614	24.4	0.02531	61.9	0.13	318.0	2.5024	227.3	315.3	227.30				69.2	274.7	-5.7	69.0
34.7	9001	30.1	0.02661	76.8	0.17	300.0	2.4771	226.7	319.8	226.68				60.4	275.8	-6.1	60.0
35.0	9158	32.5	0.02714	82.8	0.18	293.0	2.4669	226.4	321.6	226.43				56.8	276.4	-6.3	56.4
36.0	9482	51.2	0.02876	130.5	0.30	279.0	2.4456	226.6	326.3	226.58				61.6	279.6	-10.3	60.8
37.0	9797	63.6	0.03092	163.1	0.40	266.0	2.4249	225.3	328.9	225.27				52.8	280.5	-9.7	51.9
38.0	10128	91.3	0.03398	232.3	0.60	253.0	2.4031	227.0	336.2	227.01				50.4	282.3	-10.8	49.2
38.2	10207	95.8	0.03493	243.3	0.64	250.0	2.3979	227.4	337.9	227.36				51.2	282.1	-10.8	50.0
39.0	10452	109.7	0.03784	277.2	0.75	241.0	2.3820	228.4	343.0	228.44				53.6	281.5	-10.7	52.5
40.0	10852	133.1	0.04357	336.5	0.97	227.0	2.3560	228.4	348.9	228.44				43.1	280.5	-7.9	42.4
41.0	11153	96.8	0.04766	243.8	0.74	217.0	2.3365	229.3	354.8	229.29				44.5	279.9	-7.7	43.9
42.0	11502	73.2	0.05115	184.1	0.59	206.0	2.3139	229.6	360.5	229.57				39.3	278.9	-6.1	38.8
42.5	11699	62.4	0.05260	157.2	0.51	200.0	2.3010	228.9	362.6	228.94				40.5	279.9	-7.0	39.9
43.0	11904	51.2	0.05409	129.5	0.44	194.0	2.2878	228.3	364.7	228.30				41.9	280.8	-7.9	41.1
44.0	12221	37.2	0.05575	94.2	0.33	185.0	2.2672	228.2	369.5	228.15				40.5	280.9	-7.7	39.8
45.0	12552	45.5	0.05738	116.2	0.43	176.0	2.2455	226.1	371.5	226.14				38.0	280.1	-6.6	37.4
46.0	12859	39.6	0.05894	101.7	0.39	168.0	2.2253	224.7	374.0	224.68				39.8	278.9	-6.1	39.3
47.0	13181	43.1	0.06053	109.7	0.45	160.0	2.2041	226.7	382.7	226.72				42.5	276.8	-5.0	42.2
48.0	13564	49.5	0.06265	126.6	0.54	151.0	2.1790	225.9	387.6	225.85				50.2	277.3	-6.4	49.8

STATION WALLOPS IS LAUNCH DATE 13081 LAUNCH TIME 1631 GMT ECC SONDE 3A1515X

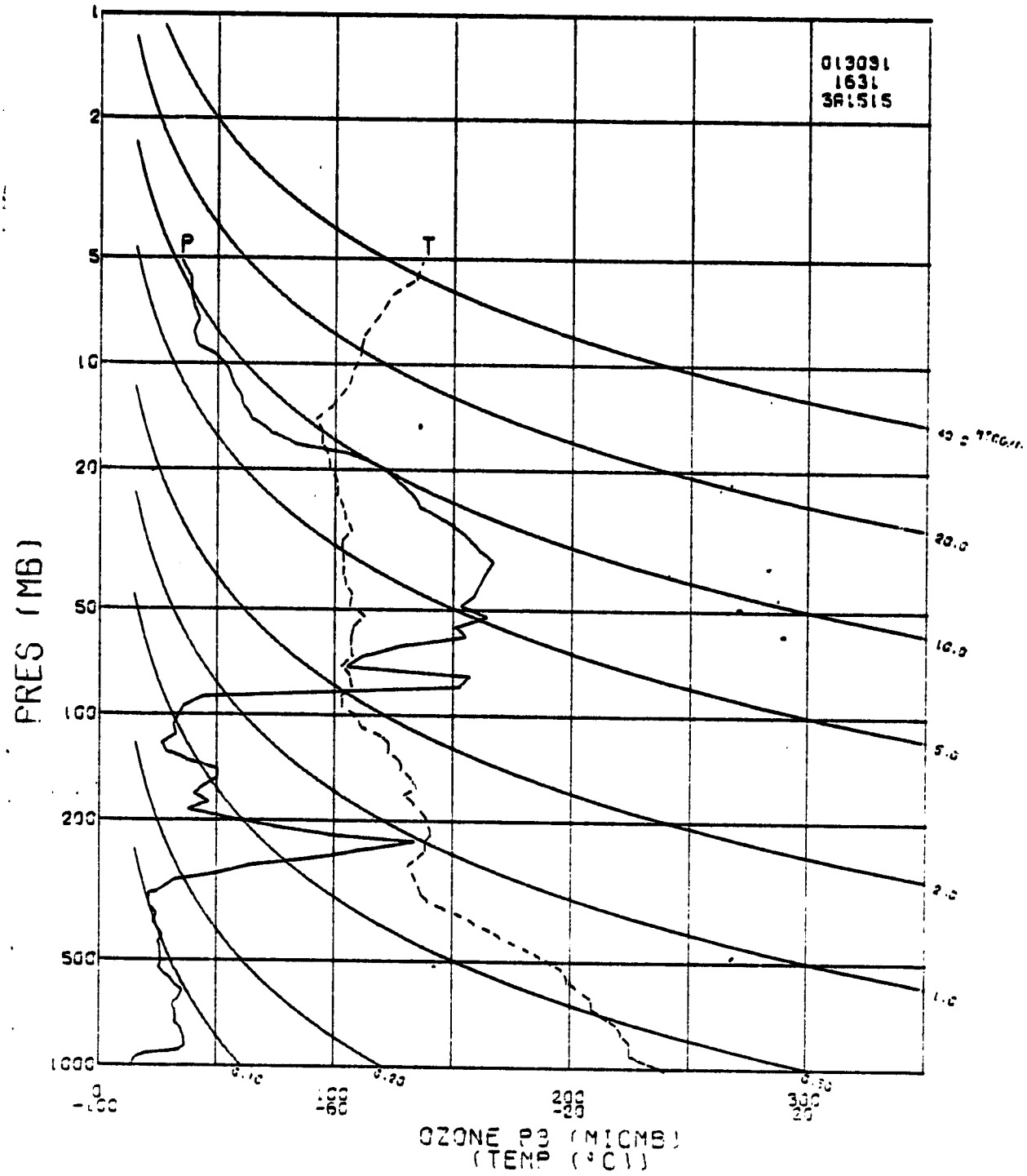
48.1	13607	49.5	0.06291	126.7	0.55	150.0	2.1761	225.7	388.1	225.68	1000.1	259.9	174.5	984.8
49.0	13969	49.5	0.06505	127.4	0.58	142.0	2.1523	224.2	391.7	224.23	8855.7	259.1	1667.1	8697.4
50.0	14349	36.9	0.06703	95.3	0.46	134.0	2.1271	223.8	397.4	223.79	999.9	999.9	999.9	999.9
51.0	14699	28.4	0.06841	73.9	0.37	127.0	2.1038	222.0	400.3	221.98	999.9	999.9	999.9	999.9
51.3	14802	27.7	0.06875	72.1	0.37	125.0	2.0969	222.0	402.1	221.98	999.9	999.9	999.9	999.9
52.0	15067	26.0	0.06963	67.6	0.36	120.0	2.0792	222.0	406.8	221.98	999.9	999.9	999.9	999.9
53.0	15399	32.0	0.07080	83.6	0.46	114.0	2.0569	220.7	410.5	220.74	999.9	999.9	999.9	999.9
54.0	15746	31.1	0.07214	82.4	0.48	108.0	2.0334	217.6	410.9	217.56	8781.6	79.0	1680.5	8619.4
55.0	16234	33.4	0.07410	89.3	0.55	100.0	2.0000	216.2	417.5	216.23	20.0	282.6	-4.4	19.6
56.0	16637	35.8	0.07585	96.6	0.63	93.8	1.9722	214.2	421.2	214.19	30.2	280.8	-5.7	29.7
57.0	17029	44.0	0.07783	118.9	0.83	88.1	1.9450	213.8	428.1	213.84	33.1	281.4	-6.5	32.5
58.0	17457	152.4	0.08310	407.9	3.07	82.3	1.9154	215.7	440.4	215.73	35.2	288.6	-11.2	33.4
58.4	17635	154.1	0.08656	412.6	3.19	80.0	1.9031	215.6	443.7	215.60	33.4	289.5	-11.2	31.5
59.0	17901	156.5	0.09169	419.6	3.38	76.7	1.8848	215.4	448.6	215.39	30.8	291.2	-11.1	28.7
60.0	18281	104.9	0.09793	282.6	2.41	72.2	1.8585	214.2	453.9	214.19	14.7	304.8	-8.4	12.0
60.4	18475	107.9	0.10057	289.9	2.56	70.0	1.8451	214.9	459.6	214.94	11.9	318.4	-8.9	7.9
61.0	18723	111.9	0.10394	299.2	2.75	67.3	1.8280	215.9	466.8	215.90	9.9	344.6	-9.5	2.6
62.0	19150	127.5	0.11032	341.5	3.36	62.9	1.7987	215.6	475.1	215.56	7.5	47.5	-5.1	-5.5
62.8	19448	148.1	0.11557	396.2	4.10	60.0	1.7782	215.8	482.2	215.82	6.6	357.5	-6.6	0.3
63.0	19533	154.0	0.11706	411.8	4.31	59.2	1.7723	215.9	484.2	215.90	7.3	344.5	-7.0	2.0
64.0	19930	150.5	0.12459	401.8	4.48	55.6	1.7451	216.2	493.7	216.23	16.5	78.6	-3.3	-16.2
65.0	20355	163.4	0.13288	433.0	5.21	52.0	1.7160	217.9	507.1	217.88	4.5	37.6	-3.5	-2.7
65.5	20603	157.8	0.13778	420.6	5.23	50.0	1.6990	216.6	509.9	216.65	7.6	306.8	-4.6	6.1
66.0	20823	152.9	0.14209	409.6	5.25	48.3	1.6839	215.6	512.4	215.56	14.9	291.5	-5.5	13.8
67.0	21228	158.6	0.14998	424.1	5.80	45.3	1.6561	215.9	522.7	215.90	3.7	310.8	-2.4	2.8
68.0	21660	160.9	0.15861	432.6	6.30	42.3	1.6263	214.7	530.1	214.71	27.5	287.5	-8.3	26.2
68.8	22011	162.7	0.16576	438.2	6.74	40.0	1.6021	214.3	537.6	214.30	18.0	293.6	-7.2	16.5
69.0	22106	163.1	0.16769	439.8	6.86	39.4	1.5955	214.2	539.6	214.19	15.5	296.5	-6.9	13.9
70.0	22603	166.4	0.17799	448.3	7.58	36.4	1.5611	214.4	552.4	214.37	6.7	335.1	-6.1	2.8
70.5	22848	163.2	0.18305	440.1	7.73	35.0	1.5441	214.2	558.2	214.18	9.2	331.2	-8.1	4.4
71.0	23067	160.4	0.18755	432.8	7.86	33.8	1.5289	214.0	563.3	214.02	11.4	329.1	-9.8	5.9
72.0	23469	156.4	0.19556	421.5	8.17	31.7	1.5011	214.2	574.2	214.19	8.5	20.8	-8.0	-3.0
72.8	23815	152.6	0.20227	408.9	8.43	30.0	1.4771	215.5	586.9	215.49	11.2	10.5	-11.0	-2.0
73.0	23874	151.9	0.20349	406.6	8.48	29.7	1.4728	215.7	589.2	215.73	11.7	9.1	-11.5	-1.9
74.0	24364	144.4	0.21249	388.4	8.70	27.5	1.4393	214.7	599.5	214.71	14.9	3.1	-14.9	-0.8
75.0	24862	135.7	0.22127	365.8	8.85	25.4	1.4048	214.2	611.7	214.19	18.6	26.0	-16.7	-8.2
75.2	24961	135.0	0.22295	364.2	8.95	25.0	1.3979	214.0	614.0	214.01	18.8	25.6	-17.0	-8.1
76.0	25348	132.2	0.22949	357.9	9.32	23.5	1.3711	213.3	622.9	213.32	19.7	24.1	-18.0	-8.0
77.0	25903	126.0	0.23855	341.4	9.71	21.5	1.3324	213.1	638.4	213.14	21.3	356.5	-21.2	1.3
77.8	26352	121.0	0.24556	329.2	10.02	20.0	1.3010	212.2	648.8	212.16	17.8	0.2	-17.8	-0.1

STATION WALLOPS IS LAUNCH DATE 13081 LAUNCH TIME 1631 GMT ECC SONDE 3A1515X

78.0	26478	119.6	0.24751	325.8	10.11	19.6	1.2923	211.9	651.7	211.89	16.9	1.5	-16.9	-0.4
79.0	27040	106.1	0.25559	289.5	9.82	17.9	1.2529	211.5	667.6	211.52	14.3	11.1	-14.1	-2.8
79.4	27179	97.7	0.25727	267.1	9.22	17.5	1.2430	211.2	670.9	211.19	14.2	17.9	-13.5	-4.4
80.0	27432	82.6	0.26031	226.5	8.15	16.8	1.2253	210.6	676.9	210.60	14.4	30.3	-12.4	-7.3
81.0	27889	72.0	0.26483	197.5	7.65	15.6	1.1931	210.6	691.4	210.60	17.2	17.1	-16.4	-5.1
81.5	28130	68.4	0.26694	187.8	7.54	15.0	1.1761	210.2	697.8	210.17	20.0	2.7	-20.0	-0.9
82.0	28424	63.9	0.26950	176.0	7.40	14.3	1.1553	209.7	705.6	209.66	24.7	350.5	-24.4	4.1
83.0	28918	60.3	0.27342	164.1	7.57	13.2	1.1206	212.2	730.8	212.25	25.4	33.9	-21.1	-14.1
83.7	29257	59.2	0.27598	160.0	7.84	12.5	1.0969	213.5	746.7	213.47	22.6	32.6	-19.0	-12.2
84.0	29409	58.6	0.27712	158.2	7.96	12.2	1.0864	214.0	753.7	214.02	21.3	31.9	-18.1	-11.3
85.0	29891	55.4	0.28057	148.4	8.12	11.3	1.0531	215.6	776.0	215.56	23.8	325.8	-19.7	13.4
86.0	30476	53.3	0.28454	142.2	8.57	10.3	1.0128	216.2	799.3	216.23	25.3	318.9	-19.1	16.6
86.3	30663	51.6	0.28572	137.6	8.54	10.0	1.0000	216.6	807.5	216.61	22.1	326.2	-18.4	12.3
87.0	31056	48.1	0.28820	127.8	8.48	9.4	0.9731	217.4	824.8	217.39	17.2	349.4	-16.9	3.2
88.0	31404	41.0	0.29012	108.8	7.63	8.9	0.9494	217.6	838.4	217.56	19.9	0.8	-19.9	-0.3
89.0	31926	38.7	0.29269	102.6	7.83	8.2	0.9138	218.0	860.2	218.05	24.5	14.7	-23.7	-6.2
89.3	32084	39.5	0.29348	104.3	8.19	8.0	0.9031	218.5	868.3	218.53	24.9	13.7	-24.2	-5.9
90.0	32498	41.4	0.29552	108.8	9.15	7.5	0.8751	219.8	889.5	219.80	26.0	11.2	-25.5	-5.0
90.8	32943	39.5	0.29771	103.2	9.35	7.0	0.8451	221.1	912.6	221.09	29.6	353.0	-29.3	3.6
91.0	33036	39.1	0.29817	102.0	9.39	6.9	0.8388	221.4	917.4	221.36	30.6	349.8	-30.1	5.4
92.0	33627	37.7	0.30092	97.6	9.90	6.3	0.7993	222.7	947.4	222.74	39.1	341.9	-37.2	12.2
92.5	33947	37.8	0.30238	97.0	10.44	6.0	0.7782	224.7	969.3	224.68	42.0	341.8	-39.9	13.1
93.0	34285	37.9	0.30390	96.4	11.01	5.7	0.7559	226.7	992.4	226.72	45.1	341.7	-42.8	14.1
94.0	35025	33.8	0.30705	85.7	10.99	5.1	0.7076	227.9	1029.6	227.87	999.9	999.9	999.9	999.9

*** GMD IN LIMITING ANGLES ***
*** DURING PART OF OBSERVATION ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 21381 LAUNCH TIME 1449 GMT ECC SONDE 3A1511X

SURFACE CONDITIONS					
PRESS	1050.1 MB	OO3 = 28.1	TBOX CAL =	30.0 C	AT 74.1 ORD
TEMP	272.1 K	OIZ = 27.7	BASE CAL =	30.0 C	AT 73.7 ORD
HUMY	51.0 %	OZC = 56.0	HUMIDITY =	61.8 %	AT 46.0 ORD
		IO = 0.074			
		PS = 30.6			

	PROFILE	DOBSON
INTEGRATED OZONE	0.29342	
RESIDUAL OZONE	0.03179	
TOTAL OZONE	0.32521	0.33400

ADDITIONAL DOBSON INFORMATION

Observation Type: 0
Wavelength: 0
Air Mass: 1.995
GMT: 1500

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	9.7	0.	20.6	0.02	1050.1	3.0212	272.1	268.3	272.40	61.2	265.5	0.0020	5.0	5.0	-5.0	-0.4
1.0	233	15.1	0.00028	32.4	0.02	1020.2	3.0087	269.2	267.7	269.57	69.3	264.5	0.0019	8.5	33.4	-7.1	-4.7
1.6	390	17.4	0.00055	37.4	0.03	1000.0	3.0000	268.5	268.5	268.83	82.7	265.9	0.0023	7.9	50.2	-5.1	-6.1
2.0	509	19.1	0.00076	41.2	0.03	985.0	2.9934	267.9	269.0	268.27	92.9	266.9	0.0024	7.9	63.7	-3.5	-7.1
3.0	760	25.6	0.00132	55.1	0.04	954.0	2.9795	268.5	272.1	268.76	61.0	262.1	0.0017	5.8	83.8	-0.6	-5.8
4.0	1019	33.7	0.00209	72.7	0.06	923.0	2.9652	267.4	273.6	267.47				3.7	43.7	-2.7	-2.5
4.8	1217	39.5	0.00284	84.3	0.07	900.0	2.9542	270.4	278.6	270.45				3.0	10.6	-2.9	-0.5
5.0	1279	41.3	0.00307	87.9	0.08	893.0	2.9509	271.3	280.2	271.37				3.0	358.7	-3.0	0.1
6.0	1570	43.0	0.00428	90.5	0.08	861.0	2.9350	274.5	286.5	274.69	26.1	257.1	0.0013	2.2	328.7	-1.9	1.1
6.4	1673	41.9	0.00471	88.2	0.08	850.0	2.9294	274.3	287.3	274.45	25.1	256.5	0.0012	2.6	319.8	-2.0	1.7
7.0	1864	39.9	0.00548	84.1	0.08	830.0	2.9191	273.8	288.8	274.01	23.4	255.3	0.0011	3.5	309.3	-2.2	2.7
8.0	2158	39.4	0.00664	83.6	0.08	800.0	2.9031	272.1	290.0	272.24	25.1	254.6	0.0011	6.6	302.6	-3.5	5.5
9.0	2461	35.6	0.00777	76.0	0.08	770.0	2.8865	270.6	291.6	270.82	26.7	254.1	0.0011	8.6	303.0	-4.7	7.2
10.0	2753	34.5	0.00879	74.0	0.08	742.0	2.8704	268.9	292.9	269.11	27.2	252.9	0.0010	9.5	290.1	-3.3	8.9
11.0	3076	33.9	0.00991	73.5	0.08	712.0	2.8525	266.7	293.8	266.83	30.5	252.2	0.0010	9.0	276.6	-1.0	8.9
11.5	3208	33.3	0.01035	72.3	0.08	700.0	2.8451	265.5	294.0	265.74	44.4	254.9	0.0015	8.3	278.7	-1.3	8.2
12.0	3365	32.4	0.01088	70.9	0.08	686.0	2.8363	264.2	294.2	264.44	60.9	258.0	0.0017	7.6	281.6	-1.5	7.4
13.0	3675	33.1	0.01192	72.6	0.08	659.0	2.8189	263.0	296.3	263.16	35.8	250.7	0.0010	7.3	282.3	-1.6	7.2
14.0	3983	30.0	0.01292	66.4	0.08	633.0	2.8014	260.6	296.9	260.70	32.7	247.6	0.0007	8.0	271.5	-0.2	8.0
15.0	4314	30.0	0.01395	67.0	0.08	606.0	2.7825	258.5	298.2	258.59	36.1	246.8	0.0007	9.8	265.0	0.8	9.7
15.2	4388	29.4	0.01418	65.8	0.08	600.0	2.7782	258.0	298.6	258.13	35.3	246.1	0.0007	10.4	265.2	0.9	10.4

STATION WALLOPS IS LAUNCH DATE 21381 LAUNCH TIME 1449 GMT ECC SONDE 3A1511X

16.0	4631	27.6	0.01491	62.0	0.08	581.0	2.7642	256.5	299.6	256.64	32.7	244.0	0.0006	12.4	265.6	1.0	12.4
17.0	4960	24.3	0.01581	55.0	0.07	556.0	2.7451	254.6	301.1	254.75	47.8	246.3	0.0008	13.4	267.6	0.6	13.4
18.0	5287	26.3	0.01669	60.3	0.08	532.0	2.7259	252.3	302.2	252.48	67.4	247.9	0.0009	12.8	262.6	1.7	12.7
19.0	5597	23.0	0.01751	53.3	0.07	510.0	2.7076	249.7	302.6	249.79	68.1	245.5	0.0008	14.0	260.4	2.3	13.8
19.4	5741	23.4	0.01788	54.2	0.08	500.0	2.6990	249.1	303.6	249.19	67.5	244.8	0.0007	14.7	259.9	2.6	14.4
20.0	5918	23.8	0.01832	55.3	0.08	488.0	2.6884	248.4	304.9	248.46	66.7	244.0	0.0007	15.5	259.4	2.8	15.2
21.0	6236	22.1	0.01912	51.8	0.08	467.0	2.6693	246.6	306.6	246.72	58.4	241.0	0.0005	16.5	254.9	4.3	16.0
22.0	6567	22.1	0.01992	52.1	0.08	446.0	2.6493	245.5	309.1	245.52	51.9	238.6	0.0004	17.4	249.6	6.1	16.3
23.0	6895	22.1	0.02073	52.6	0.09	426.0	2.6294	242.8	309.9	242.87	52.5	236.3	0.0004	18.0	248.6	6.6	16.8
24.0	7252	20.6	0.02158	49.7	0.08	405.0	2.6075	239.8	310.4	239.83	51.2	233.2	0.0003	16.9	251.1	5.5	16.0
24.3	7338	20.6	0.02178	49.8	0.09	400.0	2.6021	238.9	310.3	238.90	52.1	232.5	0.0003	17.4	247.8	6.6	16.1
25.0	7551	20.6	0.02228	50.3	0.09	388.0	2.5888	236.6	310.1	236.63	54.4	230.8	0.0002	19.0	240.6	9.3	16.5
26.0	7860	19.5	0.02298	48.0	0.09	371.0	2.5694	234.3	311.1	234.34	40.1	225.9	0.0001	22.1	233.5	13.2	17.8
27.0	8200	22.8	0.02381	56.4	0.11	353.0	2.5478	233.4	314.2	233.39	29.9	222.5	0.0001	20.1	238.9	10.4	17.2
27.2	8257	23.0	0.02397	57.1	0.11	350.0	2.5441	232.9	314.3	232.90				20.4	239.5	10.3	17.6
28.0	8495	24.1	0.02462	60.3	0.12	338.0	2.5289	230.9	314.8	230.91				21.6	241.9	10.2	19.0
29.0	8800	20.8	0.02542	52.6	0.11	323.0	2.5092	228.3	315.2	228.25				22.9	240.2	11.4	19.8
30.0	9116	20.7	0.02620	52.9	0.11	308.0	2.4886	226.4	317.0	226.40				22.3	235.3	12.7	18.3
30.5	9289	21.7	0.02665	55.6	0.12	300.0	2.4771	225.1	317.5	225.10				22.0	234.9	12.6	18.0
31.0	9467	22.6	0.02711	58.4	0.13	292.0	2.4654	223.8	318.1	223.77				21.7	234.5	12.6	17.7
32.0	9741	29.2	0.02797	75.6	0.17	280.0	2.4472	222.4	320.0	222.43				22.6	238.3	11.9	19.3
33.0	10026	23.7	0.02889	61.7	0.15	268.0	2.4281	222.0	323.4	221.97				24.3	241.4	11.7	21.4
34.0	10348	26.2	0.02987	68.7	0.17	255.0	2.4065	220.4	325.7	220.44				24.0	240.6	11.8	20.9
34.4	10475	26.4	0.03028	69.4	0.18	250.0	2.3979	219.9	326.8	219.92				25.4	237.4	13.7	21.4
35.0	10658	26.8	0.03087	70.5	0.18	243.0	2.3856	219.2	328.4	219.18				27.5	233.5	16.4	22.1
36.0	10954	27.3	0.03186	72.3	0.19	232.0	2.3655	217.9	330.8	217.91				31.6	231.7	19.6	24.8
37.0	11235	33.7	0.03292	89.2	0.25	222.0	2.3464	217.9	335.0	217.91				32.0	235.6	18.1	26.3
38.0	11559	37.9	0.03436	100.5	0.30	211.0	2.3243	217.9	339.9	217.91				31.1	236.5	17.2	25.9
39.0	11836	32.8	0.03557	87.2	0.27	202.0	2.3054	216.9	342.6	216.93				29.9	234.9	17.2	24.4
39.2	11899	32.9	0.03583	87.7	0.27	200.0	2.3010	216.8	343.5	216.85				29.5	236.6	16.3	24.6
40.0	12092	33.4	0.03663	89.0	0.29	194.0	2.2878	216.6	346.1	216.60				28.5	242.0	13.3	25.1
41.0	12325	45.4	0.03777	120.5	0.40	187.0	2.2718	217.6	351.3	217.58				29.0	247.8	11.0	26.8
42.0	12604	43.5	0.03930	114.9	0.40	179.0	2.2529	218.9	357.8	218.87				32.7	247.8	12.3	30.2
43.0	12896	44.8	0.04090	118.6	0.43	171.0	2.2330	218.1	361.2	218.07				41.0	247.7	15.5	37.9
44.0	13241	54.9	0.04302	145.3	0.56	162.0	2.2095	218.2	367.1	218.23				42.4	247.7	16.1	39.2
45.0	13564	56.3	0.04525	149.4	0.61	154.0	2.1875	217.6	371.3	217.58				35.5	247.8	13.4	32.9
45.8	13731	52.0	0.04636	138.1	0.57	150.0	2.1761	217.3	373.7	217.32				35.7	247.9	13.4	33.1
46.0	13774	50.9	0.04664	135.3	0.57	149.0	2.1732	217.3	374.3	217.26				35.8	247.9	13.4	33.1
47.0	14125	27.0	0.04834	71.6	0.32	141.0	2.1492	217.3	380.2	217.26				35.4	247.9	13.3	32.8
48.0	14355	23.7	0.04906	62.7	0.29	136.0	2.1335	217.9	385.3	217.91				33.6	247.8	12.7	31.1

STATION WALLOPS IS LAUNCH DATE 21381 LAUNCH TIME 1449 GMT ECC SONDE 3A1511X

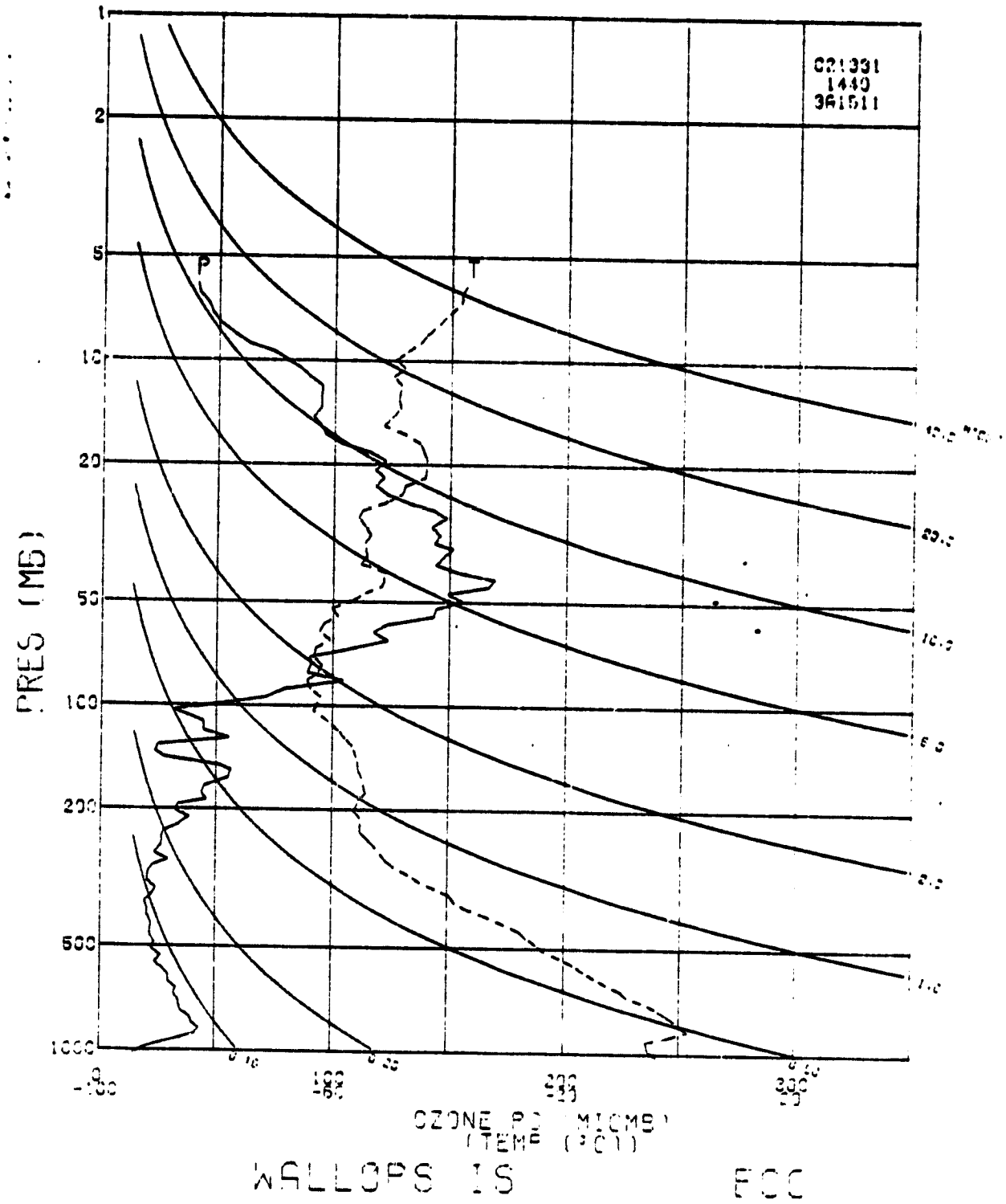
49.0	14642	24.8	0.04992	66.3	0.32	130.0	2.1139	216.4	387.7	216.44	36.0	249.0	12.9	33.6
49.8	14889	49.9	0.05116	133.9	0.66	125.0	2.0969	215.5	390.3	215.47	42.4	257.9	8.9	41.4
50.0	14940	55.1	0.05141	147.7	0.74	124.0	2.0934	215.3	390.8	215.27	43.8	259.4	8.0	43.0
51.0	15251	44.3	0.05336	119.6	0.62	118.0	2.0719	214.1	394.2	214.07	41.4	245.2	17.4	37.6
52.0	15632	44.0	0.05549	119.5	0.66	111.0	2.0453	212.3	397.9	212.32	41.4	229.3	27.0	31.4
53.0	16094	31.8	0.05772	87.6	0.51	103.0	2.0128	209.8	401.6	209.75	35.7	236.6	19.7	29.8
53.8	16275	45.8	0.05867	125.8	0.76	100.0	2.0000	210.2	405.8	210.21	30.9	239.2	15.8	26.5
54.0	16319	49.1	0.05889	134.9	0.82	99.3	1.9969	210.3	406.9	210.31	29.7	239.9	14.9	25.7
55.0	16644	71.8	0.06141	196.6	1.26	94.2	1.9741	210.9	414.1	210.87	27.7	248.6	10.1	25.8
56.0	16979	79.8	0.06467	220.2	1.48	89.2	1.9504	209.2	417.3	209.18	25.7	251.6	8.1	24.4
57.0	17324	104.1	0.06877	288.1	2.05	84.3	1.9258	208.6	422.9	208.61	25.4	251.2	8.2	24.1
58.0	17637	88.8	0.07266	243.7	1.84	80.1	1.9036	210.5	433.0	210.50	24.8	252.2	7.6	23.6
58.0	17644	88.9	0.07275	243.8	1.84	80.0	1.9031	210.5	433.2	210.51	24.9	252.2	7.6	23.7
59.0	17953	90.2	0.07628	246.7	1.96	76.1	1.8814	211.1	440.5	211.05	28.3	250.5	9.5	26.7
60.0	18294	90.1	0.08022	247.9	2.07	72.0	1.8573	209.8	444.8	209.75	25.0	247.4	9.6	23.1
60.5	18467	98.8	0.08241	271.9	2.35	70.0	1.8451	209.8	448.6	209.85	25.5	247.4	9.8	23.5
61.0	18636	107.4	0.08455	295.3	2.61	68.1	1.8331	209.9	452.4	209.94	25.9	247.4	9.9	23.9
62.0	18971	123.5	0.08950	335.6	3.17	64.5	1.8096	212.5	465.0	212.50	25.1	245.1	10.6	22.8
63.0	19316	117.6	0.09481	322.2	3.19	61.0	1.7853	210.7	468.5	210.68	16.3	235.8	9.2	13.5
63.3	19418	119.5	0.09638	327.1	3.30	60.0	1.7782	210.9	471.2	210.92	16.5	235.4	9.4	13.6
64.0	19638	123.7	0.09977	337.7	3.54	57.9	1.7627	211.4	477.2	211.42	16.8	236.4	9.8	13.7
65.0	19957	142.9	0.10518	386.2	4.31	55.0	1.7404	213.7	489.5	213.73	20.2	241.8	9.5	17.8
66.0	20295	144.3	0.11132	391.5	4.59	52.1	1.7168	212.9	495.1	212.85	17.2	245.4	7.2	15.7
66.8	20552	152.9	0.11617	409.0	5.07	50.0	1.6990	215.7	507.8	215.73	15.1	243.4	6.8	13.5
67.0	20616	154.9	0.11736	413.3	5.19	49.5	1.6946	216.4	510.9	216.44	14.5	242.8	6.7	12.9
68.0	20932	149.1	0.12332	393.8	5.24	47.1	1.6730	218.5	523.2	218.55	19.9	242.1	9.3	17.6
69.0	21240	166.8	0.12928	434.5	6.16	44.9	1.6522	221.7	538.0	221.67	20.7	241.5	9.9	18.2
70.0	21536	169.1	0.13532	439.8	6.53	42.9	1.6325	222.0	545.8	221.97	9.7	221.3	7.3	6.4
71.0	21846	153.2	0.14139	398.2	6.21	40.9	1.6117	222.1	553.7	222.12	12.6	212.5	10.6	6.8
71.4	21989	149.3	0.14400	391.2	6.18	40.0	1.6021	220.3	552.7	220.34	12.5	213.5	10.4	6.9
72.0	22185	144.0	0.14758	381.6	6.15	38.8	1.5888	217.9	551.4	217.91	12.4	215.0	10.2	7.1
73.0	22506	147.3	0.15335	388.5	6.61	36.9	1.5670	218.9	561.8	218.87	7.9	205.3	7.1	3.4
74.0	22844	150.9	0.15956	398.4	7.15	35.0	1.5441	218.7	570.0	218.71	13.4	222.6	9.9	9.1
75.0	23086	143.3	0.16396	378.5	7.04	33.7	1.5276	218.5	575.7	218.55	16.7	228.8	11.0	12.6
76.0	23418	145.5	0.16986	382.8	7.54	32.0	1.5051	219.5	586.9	219.50	11.1	224.4	7.9	7.7
77.0	23789	142.1	0.17643	375.4	7.80	30.2	1.4800	218.5	594.1	218.55	7.0	229.4	4.6	5.3
77.1	23831	142.8	0.17719	377.4	7.89	30.0	1.4771	218.4	594.8	218.42	6.6	230.1	4.3	5.1
78.0	24158	148.1	0.18306	393.4	8.61	26.5	1.4548	217.4	600.9	217.42	3.7	241.2	1.8	3.2
79.0	24479	143.1	0.18885	378.9	8.75	27.1	1.4330	218.1	611.4	218.07	7.9	245.2	3.3	7.2
80.0	24795	132.4	0.19419	344.5	8.51	25.8	1.4116	222.0	631.1	221.97	18.3	245.2	7.7	16.6

STATION WALLOPS IS LAUNCH DATE 21381 LAUNCH TIME 1449 GMT ECC SONDE 3A1511X

80.5	25001	127.3	0.19736	329.0	8.43	25.0	1.3979	223.5	641.4	223.54	12.9	248.3	4.8	12.0
81.0	25187	122.7	0.20022	315.0	8.37	24.3	1.3856	225.0	650.6	224.95	8.1	254.6	2.2	7.8
82.0	25549	117.8	0.20544	301.9	8.49	23.0	1.3617	225.4	662.2	225.39	7.9	255.9	1.9	7.7
83.0	25905	121.5	0.21050	306.5	9.23	21.8	1.3385	228.8	682.7	228.82	16.2	245.3	6.8	14.7
84.0	26252	117.7	0.21539	296.7	9.42	20.7	1.3160	229.0	693.3	228.96	15.5	237.2	8.4	13.0
84.6	26482	120.3	0.21864	303.2	9.97	20.0	1.3010	229.0	700.4	229.04	13.3	232.8	8.1	10.6
85.0	26652	122.2	0.22104	307.9	10.38	19.5	1.2900	229.1	705.6	229.10	11.8	228.5	7.8	8.9
86.0	27041	115.5	0.22648	291.9	10.40	18.4	1.2648	228.5	715.7	228.54	6.6	231.9	4.1	5.2
86.8	27375	105.0	0.23080	265.8	9.93	17.5	1.2430	228.0	724.2	227.96	5.2	240.8	2.6	4.6
87.0	27452	102.5	0.23179	259.9	9.82	17.3	1.2380	227.8	726.1	227.83	5.0	243.5	2.2	4.4
88.0	27847	95.7	0.23644	245.4	9.73	16.3	1.2122	225.2	730.2	225.24	11.2	245.1	4.7	10.1
89.0	28218	93.8	0.24069	244.3	10.09	15.4	1.1875	221.7	730.4	221.67	8.7	244.1	3.8	7.8
89.5	28389	92.2	0.24260	239.4	10.18	15.0	1.1761	222.3	738.2	222.34	3.4	234.7	2.0	2.8
90.0	28565	90.5	0.24457	234.3	10.27	14.6	1.1644	223.0	746.2	223.03	2.4	93.1	0.1	-2.4
91.0	28982	93.6	0.24919	240.7	11.32	13.7	1.1367	224.5	764.9	224.51	2.8	215.5	2.3	1.6
92.0	29428	93.7	0.25421	241.3	12.13	12.8	1.1072	224.2	778.9	224.22	9.8	241.7	4.7	8.7
92.3	29583	93.8	0.25597	241.4	12.44	12.5	1.0969	224.3	784.7	224.34	8.7	242.1	4.1	7.7
93.0	29962	94.1	0.26024	241.8	13.21	11.8	1.0719	224.7	798.8	224.66	6.0	243.6	2.7	5.4
94.0	30363	88.7	0.26465	229.2	13.23	11.1	1.0453	223.3	808.0	223.33	4.8	244.9	2.0	4.4
95.0	30727	84.8	0.26845	217.6	13.39	10.5	1.0212	225.1	827.5	225.10	6.3	242.3	2.9	5.5
95.8	31047	79.9	0.27160	205.9	13.23	10.0	1.0000	224.0	835.0	224.00	9.0	233.2	5.4	7.2
96.0	31113	78.8	0.27225	203.4	13.20	9.9	0.9956	223.8	836.5	223.77	9.6	232.0	5.9	7.6
97.0	31454	73.5	0.27537	188.2	12.96	9.4	0.9731	225.5	855.7	225.53	12.7	235.1	7.3	10.4
98.0	31816	62.8	0.27831	159.4	11.70	8.9	0.9494	227.7	877.5	227.69	7.8	236.3	4.3	6.5
99.0	32202	56.9	0.28104	143.4	11.22	8.4	0.9243	229.0	897.1	228.96	10.7	235.3	6.1	8.8
99.7	32530	52.5	0.28310	131.7	10.87	8.0	0.9031	230.3	915.2	230.33	13.8	237.0	7.5	11.6
100.0	32701	50.3	0.28417	125.7	10.68	7.8	0.8921	231.0	924.6	231.05	15.5	237.6	8.3	13.1
101.0	33150	47.0	0.28672	116.7	10.68	7.3	0.8633	232.7	949.0	232.69	14.9	238.9	7.7	12.8
101.6	33436	45.7	0.28824	112.9	10.82	7.0	0.8451	233.9	965.5	233.89	13.3	235.8	7.4	11.0
102.0	33635	44.8	0.28929	110.3	10.92	6.8	0.8325	234.7	976.9	234.72	12.1	233.2	7.3	9.7
103.0	34051	41.3	0.29135	101.4	10.68	6.4	0.8062	234.9	994.5	234.86	15.6	230.5	9.9	12.1
104.0	34495	40.3	0.29342	98.6	11.12	6.0	0.7782	235.8	1017.1	235.80	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 21981 LAUNCH TIME 1555 GMT ECC SONDE 3A1513X

SURFACE CONDITIONS		OO3 = 27.7	TBOX CAL =	30.0 C	AT 74.7 ORD
PRESS	1020.1 MB	OIZ = 27.3	BASE CAL =	30.0 C	AT 73.0 ORD
TEMP	280.9 K	OZC = 57.0	HUMIDITY =	62.0 %	AT 46.0 ORD
HUMY	89.0 %	IO = 0.070			
		PS = 30.0			

```
*************************************************
****                                         ****
****                          PROFILE  DOBSON ****
****   INTEGRATED OZONE       0.10140         ****
****   RESIDUAL OZONE                         ****
****   TOTAL OZONE                   0.30800  ****
****                                         ****
*************************************************
```

ADDITIONAL DOBSON INFORMATION

Observation Type: 4
Wavelength: 0
Air Mass: 1.619
GMT: 1600

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEMPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	39.9	0.	82.0	0.06	1020.1	3.0086	281.0	279.4	281.95	88.3	279.2	0.0057	5.0	135.0	4.2	-4.2
0.9	169	41.1	0.00064	83.1	0.07	1000.0	3.0000	285.6	285.6	287.21	98.9	285.5	0.0093	13.9	145.3	11.5	-7.9
1.0	186	41.2	0.00070	83.2	0.07	998.0	2.9991	286.1	286.3	287.74	100.0	286.1	0.0093	14.8	145.7	12.2	-8.3
2.0	399	39.6	0.00151	79.9	0.07	973.0	2.9881	286.5	288.7	288.13	95.3	285.8	0.0094	11.7	155.5	10.6	-4.9
3.0	600	41.0	0.00227	82.9	0.07	950.0	2.9777	285.5	289.8	287.12	96.3	285.0	0.0091	7.7	166.8	7.5	-1.8
4.0	814	39.9	0.00309	81.2	0.07	926.0	2.9666	283.5	289.8	284.89	96.0	282.9	0.0081	9.1	169.1	8.9	-1.7
5.0	1050	38.6	0.00397	79.1	0.07	900.0	2.9542	281.9	290.5	282.99	84.8	279.4	0.0066	10.9	169.2	10.7	-2.0
6.0	1282	38.6	0.00483	79.5	0.07	875.0	2.9420	280.4	291.3	281.45	81.2	277.4	0.0059	8.8	180.8	8.8	0.1
7.0	1462	38.0	0.00549	78.6	0.07	856.0	2.9325	279.4	292.1	280.49	93.2	278.4	0.0064	8.8	191.6	8.6	1.8
7.3	1519	37.5	0.00570	77.6	0.07	850.0	2.9294	279.2	292.4	280.24	93.4	278.2	0.0064	9.3	192.3	9.1	2.0
8.0	1665	36.3	0.00622	75.2	0.07	835.0	2.9217	278.5	293.3	279.60	93.7	277.6	0.0063	10.4	193.8	10.1	2.5
9.0	1933	34.7	0.00714	72.3	0.07	808.0	2.9074	277.3	294.8	278.42	100.0	277.3	0.0064	12.5	193.8	12.1	3.0
9.3	2013	34.6	0.00741	72.0	0.07	800.0	2.9031	277.1	295.3	278.08	91.3	275.7	0.0054	13.1	192.2	12.8	2.8
10.0	2209	34.2	0.00807	71.4	0.07	781.0	2.8927	276.5	296.7	277.25	70.3	271.6	0.0044	14.8	189.1	14.6	2.3
11.0	2461	31.9	0.00888	67.2	0.07	757.0	2.8791	274.1	296.7	274.89	93.0	273.0	0.0050	15.9	185.7	15.9	1.6
12.0	2708	30.8	0.00964	65.3	0.07	734.0	2.8657	272.6	297.8	273.27	78.6	269.4	0.0039	17.3	184.6	17.3	1.4
13.0	2950	29.1	0.01036	61.9	0.07	712.0	2.8525	271.2	298.8	271.93	95.1	270.5	0.0044	18.9	183.8	18.9	1.3
13.5	3084	29.2	0.01075	62.4	0.07	700.0	2.8451	270.6	299.6	271.32	95.8	270.0	0.0043	17.9	186.2	17.8	1.9
14.0	3199	29.4	0.01109	62.8	0.07	690.0	2.8388	270.1	300.3	270.81	96.3	269.6	0.0042	17.1	188.4	16.9	2.5
15.0	3431	28.8	0.01176	61.9	0.07	670.0	2.8261	268.6	301.1	269.25	100.0	268.6	0.0040	14.6	192.2	14.3	3.1
16.0	3682	26.8	0.01246	57.7	0.07	649.0	2.8122	268.7	304.1	269.31	83.1	266.3	0.0035	12.4	196.9	11.9	3.6

STATION WALLOPS IS LAUNCH DATE 21981 LAUNCH TIME 1555 GMT ECC SONDE 3A1513X

17.0	3952	27.5	0.01320	59.5	0.07	627.0	2.7973	266.6	304.7	267.11	78.8	263.6	0.0029	8.8	210.5	7.5	4.4
18.0	4217	26.8	0.01393	58.6	0.07	606.0	2.7825	264.6	305.3	265.06	90.6	263.3	0.0030	8.9	217.8	7.1	5.5
18.2	4293	26.7	0.01414	58.5	0.07	600.0	2.7782	264.1	305.6	264.56	92.9	263.1	0.0029	9.3	218.2	7.3	5.8
19.0	4529	26.4	0.01478	58.1	0.08	582.0	2.7649	262.6	306.5	263.02	100.0	262.6	0.0029	10.5	219.1	8.1	6.6
20.0	4811	25.7	0.01553	56.8	0.08	561.0	2.7490	261.1	308.0	261.47	77.6	258.0	0.0021	10.8	215.7	8.7	6.3
21.0	5087	23.2	0.01623	51.7	0.07	541.0	2.7332	259.3	309.1	259.57	68.8	254.8	0.0017	12.0	213.9	10.0	6.7
22.0	5357	23.3	0.01689	52.2	0.07	522.0	2.7177	257.4	309.9	257.49	39.6	246.8	0.0008	13.0	220.1	9.9	8.4
23.0	5650	22.0	0.01759	49.7	0.07	502.0	2.7007	256.1	311.9	256.28	49.4	248.1	0.0010	14.5	221.7	10.8	9.7
23.1	5679	21.9	0.01766	49.4	0.07	500.0	2.6990	255.9	311.9	256.03	47.4	247.3	0.0009	14.7	222.2	10.9	9.9
24.0	5938	20.5	0.01824	46.5	0.07	483.0	2.6839	253.8	312.5	253.89	29.2	240.4	0.0005	16.4	225.8	11.5	11.8
25.0	6235	13.6	0.01877	31.2	0.05	464.0	2.6665	252.1	313.9	252.06				14.5	215.2	11.9	8.3
26.0	6509	16.7	0.01922	38.7	0.06	447.0	2.6503	249.8	314.4	249.78				14.0	216.4	11.3	8.3
27.0	6791	17.3	0.01974	40.4	0.07	430.0	2.6335	248.2	315.9	248.19				16.2	217.5	12.8	9.9
28.0	7083	19.2	0.02032	44.9	0.08	413.0	2.6160	246.2	317.0	246.19				17.6	214.1	14.6	9.9
28.9	7312	18.6	0.02080	44.0	0.08	400.0	2.6021	244.0	317.0	244.00				18.9	225.4	13.3	13.5
29.0	7330	18.5	0.02084	43.9	0.08	399.0	2.6010	243.8	317.0	243.82				19.0	226.2	13.2	13.8
30.0	7621	19.1	0.02144	45.4	0.08	383.0	2.5832	242.5	319.0	242.49				18.0	228.6	11.9	13.5
31.0	7903	18.7	0.02204	45.1	0.08	368.0	2.5658	239.8	319.1	239.83				17.9	226.0	12.4	12.9
32.0	8233	17.4	0.02272	42.4	0.08	351.0	2.5453	237.4	320.2	237.41				18.0	223.8	13.0	12.5
32.1	8252	17.6	0.02276	42.9	0.08	350.0	2.5441	237.2	320.2	237.24				18.1	224.2	13.0	12.6
33.0	8514	19.9	0.02332	48.9	0.10	337.0	2.5276	235.0	320.6	234.97				19.3	228.8	12.7	14.5
34.0	8825	16.1	0.02396	40.0	0.08	322.0	2.5079	232.5	321.4	232.48				21.7	234.2	12.7	17.6
35.0	9082	17.4	0.02446	43.6	0.09	310.0	2.4914	230.2	321.7	230.24				23.9	236.3	13.2	19.8
35.8	9301	13.6	0.02485	34.3	0.07	300.0	2.4771	228.2	321.8	228.16				25.6	237.2	14.4	22.3
36.0	9369	12.4	0.02497	31.5	0.07	297.0	2.4728	227.5	321.9	227.52				27.4	237.5	14.7	23.1
37.0	9688	12.4	0.02544	31.9	0.07	283.0	2.4518	224.7	322.3	224.72				29.2	236.1	16.2	24.2
38.0	9995	13.3	0.02592	34.5	0.08	270.0	2.4314	222.0	322.7	221.97				31.0	232.5	18.8	24.6
39.0	10263	13.2	0.02635	34.8	0.08	259.0	2.4133	219.6	323.0	219.60				29.6	235.5	16.8	24.4
39.8	10489	17.3	0.02679	45.6	0.11	250.0	2.3979	218.8	325.1	218.81				26.6	238.0	14.1	22.6
40.0	10541	18.2	0.02689	48.0	0.12	248.0	2.3945	218.6	325.6	218.63				26.0	238.7	13.5	22.2
41.0	10829	17.5	0.02753	47.1	0.12	237.0	2.3747	215.3	324.8	215.26				24.4	236.6	13.4	20.4
42.0	11127	18.8	0.02821	50.9	0.14	226.0	2.3541	213.0	325.7	212.96				23.5	233.1	14.1	18.8
43.0	11465	16.3	0.02896	44.9	0.13	214.0	2.3304	210.2	326.5	210.16				22.8	225.0	16.1	16.1
44.0	11788	13.8	0.02959	38.4	0.11	203.0	2.3075	208.0	328.0	208.00				19.6	217.6	15.5	11.9
44.3	11878	13.6	0.02975	37.8	0.11	200.0	2.3010	207.9	329.3	207.94				18.7	216.8	15.0	11.2
45.0	12095	13.1	0.03013	36.5	0.11	193.0	2.2856	207.8	332.5	207.80				16.8	214.6	13.8	9.5
46.0	12386	20.7	0.03077	57.0	0.19	184.0	2.2648	209.2	339.3	209.19				14.8	214.6	12.2	8.4
47.0	12624	35.9	0.03163	98.0	0.34	177.0	2.2480	211.3	346.6	211.30				20.1	224.3	14.4	14.0
48.0	12984	41.0	0.03340	111.6	0.41	167.0	2.2227	212.2	353.9	212.23				28.0	235.9	15.7	23.2
49.0	13368	47.1	0.03554	127.8	0.50	157.0	2.1959	213.0	361.4	212.96				26.0	250.2	8.8	24.5

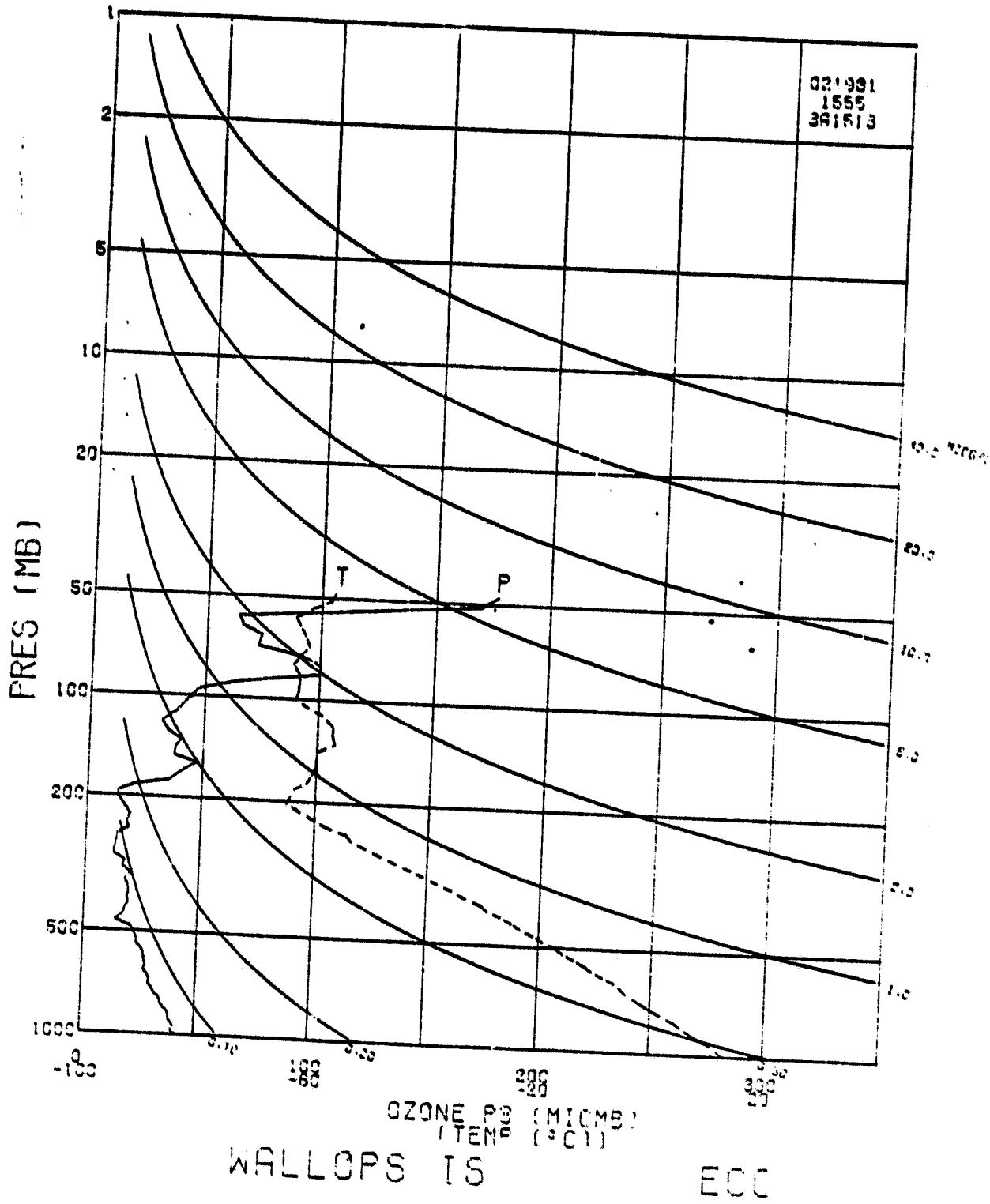
STATION WALLOPS IS LAUNCH DATE 21981 LAUNCH TIME 1555 GMT ECC SONDE 3A1513X

50.0	13652	37.5	0.03707	101.7	0.41	150.0	2.1761	212.8	365.9	212.78	23.6	255.7	5.8	22.9
51.0	13993	37.6	0.03869	101.8	0.44	142.0	2.1523	213.1	372.3	213.14	22.9	252.4	6.9	21.8
52.0	14310	40.3	0.04024	107.6	0.49	135.0	2.1303	216.1	383.0	216.12	24.1	253.4	6.9	23.1
53.0	14696	34.4	0.04204	92.2	0.45	127.0	2.1038	215.6	388.8	215.61	24.5	243.1	11.1	21.9
53.2	14796	33.7	0.04246	90.3	0.45	125.0	2.0969	215.6	390.6	215.61	24.8	245.1	10.4	22.5
54.0	15106	31.5	0.04374	84.3	0.44	119.0	2.0755	215.6	396.1	215.61	25.7	251.2	8.3	24.4
55.0	15543	37.9	0.04564	102.4	0.57	111.0	2.0453	213.7	400.4	213.68	20.9	252.5	6.3	19.9
56.0	15829	40.7	0.04707	111.2	0.64	106.0	2.0253	211.3	401.2	211.30	16.9	240.2	8.4	14.7
57.0	16187	44.1	0.04902	121.7	0.73	100.0	2.0000	209.0	403.5	209.00	19.5	250.8	6.4	18.4
58.0	16514	47.2	0.05094	130.2	0.83	94.8	1.9768	209.4	410.5	209.39	14.7	249.6	5.1	13.8
59.0	16873	64.1	0.05352	176.6	1.19	89.4	1.9513	209.6	417.8	209.58	17.1	271.6	-0.5	17.1
60.0	17255	99.5	0.05754	274.4	1.96	84.0	1.9243	209.4	424.9	209.39	20.4	275.0	-1.8	20.3
60.8	17553	99.9	0.06138	276.6	2.07	80.0	1.9031	208.6	429.3	208.60	14.8	272.4	-0.6	14.8
61.0	17630	100.0	0.06237	277.1	2.10	79.0	1.8976	208.4	430.4	208.40	13.4	271.4	-0.3	13.4
62.0	17997	91.6	0.06691	252.4	2.04	74.4	1.8716	209.6	440.3	209.58	13.2	281.5	-2.6	12.9
63.0	18372	72.9	0.07085	199.4	1.73	70.0	1.8451	211.1	451.3	211.08	11.4	304.5	-6.4	9.4
63.0	18381	72.5	0.07094	198.2	1.72	69.9	1.8445	211.1	451.5	211.12	11.4	305.1	-6.5	9.3
64.0	18829	74.0	0.07514	203.0	1.89	65.0	1.8129	210.4	459.3	210.36	5.0	291.4	-1.8	4.6
65.0	19219	65.4	0.07864	180.3	1.78	61.0	1.7853	209.4	465.6	209.39	2.4	266.6	0.1	2.4
65.3	19320	64.9	0.07948	179.2	1.79	60.0	1.7782	209.2	467.3	209.18	2.7	264.1	0.3	2.7
66.0	19602	63.7	0.08182	176.2	1.84	57.3	1.7582	208.6	472.2	208.60	3.6	259.3	0.7	3.5
67.0	19955	115.8	0.08589	316.4	3.55	54.1	1.7332	211.3	486.2	211.30	14.7	234.1	8.6	11.9
68.0	20323	169.8	0.09254	456.5	5.52	51.0	1.7076	214.7	502.6	214.74	10.6	263.3	1.2	10.5
68.3	20447	172.0	0.09525	461.9	5.70	50.0	1.6990	215.0	505.9	214.95	999.9	999.9	999.9	999.9
69.0	20731	176.9	0.10140	474.1	6.13	47.8	1.6794	215.4	513.6	215.44	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

*** TOTAL INTEGRATED OZONE INVALID ***
*** BALLOON SHORT OF 20 MB HEIGHT ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 22081 LAUNCH TIME 1849 GMT ECC SONDE 3A1518X

SURFACE CONDITIONS					
PRESS	997.1 MB	OO3 = 28.7	TBOX CAL =	30.0 C	AT 73.3 ORD
TEMP	282.2 K	OIZ = 28.2	BASE CAL. =	30.0 C	AT 73.8 ORD
HUMY	96.0 %	OZC = 57.0	HUMIDITY =	61.0 %	AT 46.0 ORD
		IO = 0.090			
		PS = 30.3			

ADDITIONAL DOBSON INFORMATION

RAIN

	PROFILE	DOBSON
INTEGRATED OZONE	0.30164	
RESIDUAL OZONE	0.07605	
TOTAL OZONE	0.37769	0.

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	27.7	0.	56.8	0.05	997.1	2.9987	282.0	282.3	283.21	97.0	281.6	0.0069	4.0	205.0	3.6	1.7
1.0	207	31.0	0.00057	63.0	0.05	973.0	2.9881	283.5	285.7	284.87	98.8	283.3	0.0080	9.6	232.3	5.8	7.6
2.0	406	32.0	0.00116	65.6	[illegible].06	950.0	2.9777	282.0	286.2	283.29	99.0	281.9	0.0074	9.5	239.7	4.8	8.2
3.0	591	35.4	0.00176	72.7	0.06	929.0	2.9680	280.8	286.7	281.94	98.9	280.6	0.0069	10.2	244.4	4.4	9.2
4.0	797	42.7	0.00253	88.2	0.08	906.0	2.9571	279.7	287.7	280.79	96.8	279.2	0.0065	11.0	242.6	5.1	9.8
4.3	851	43.4	0.00276	89.7	0.08	900.0	2.9542	279.2	287.8	280.31	96.4	278.7	0.0062	11.3	241.1	5.5	9.9
5.0	1007	45.3	0.00342	94.1	0.09	883.0	2.9460	277.9	288.0	278.93	95.5	277.3	0.0058	12.2	237.2	6.6	10.3
6.0	1212	45.2	0.00432	94.3	0.09	861.0	2.9350	276.8	288.8	277.70	97.7	276.4	0.0056	14.2	235.7	8.0	11.7
6.5	1316	41.8	0.00475	87.3	0.08	850.0	2.9294	276.1	289.2	277.01	98.6	275.9	0.0054	14.1	236.7	7.7	11.8
7.0	1422	38.3	0.00517	80.3	0.08	839.0	2.9238	275.4	289.6	276.30	99.4	275.3	0.0053	14.0	237.7	7.5	11.9
8.0	1656	35.7	0.00602	75.1	0.07	815.0	2.9112	274.4	290.9	275.28	100.0	274.4	0.0051	7.8	245.4	3.3	7.1
8.8	1805	35.7	0.00654	75.2	0.07	800.0	2.9031	274.0	292.1	274.88	99.7	274.0	0.0050	4.2	258.6	0.8	4.1
9.0	1846	35.7	0.00669	75.2	0.07	796.0	2.9009	273.9	292.4	274.77	99.6	273.9	0.0050	3.3	267.0	0.2	3.3
10.0	2071	36.3	0.00748	76.6	0.08	774.0	2.8887	273.8	294.6	274.61	97.6	273.4	0.0050	4.4	275.1	-0.4	4.3
11.0	2292	36.8	0.00828	77.8	0.08	753.0	2.8768	273.3	296.4	274.11	97.4	272.9	0.0050	2.6	303.7	-1.4	2.2
12.0	2518	34.9	0.00908	74.2	0.08	732.0	2.8645	271.4	296.7	272.12	99.3	271.3	0.0045	2.8	58.5	-1.5	-2.4
13.0	2727	34.9	0.00980	74.6	0.08	713.0	2.8531	270.0	297.4	270.65	99.0	269.8	0.0042	0.2	50.0	-0.2	-0.2
13.6	2872	36.6	0.01033	78.6	0.09	700.0	2.8451	269.1	297.9	269.70	97.0	268.6	0.0038	1.0	224.6	0.7	0.7
14.0	2974	37.8	0.01070	81.4	0.09	691.0	2.8395	268.4	298.3	269.03	95.5	267.8	0.0037	1.8	225.1	1.3	1.3
15.0	3205	32.6	0.01152	70.4	0.08	671.0	2.8267	267.5	299.8	268.08	93.1	266.6	0.0035	1.5	129.7	0.9	-1.1
16.0	3441	32.6	0.01230	70.9	0.08	651.0	2.8136	266.0	300.7	266.52	91.7	264.9	0.0031	2.8	143.6	2.3	-1.7

STATION WALLOPS IS LAUNCH DATE 22081 LAUNCH TIME 1849 GMT ECC SONDE 3A1518X

17.0	3671	32.1	0.01305	70.0	0.08	632.0	2.8007	264.7	301.8	265.15	89.9	263.3	0.0028	4.3	140.6	3.3	-2.7
18.0	3907	32.7	0.01383	71.6	0.09	613.0	2.7875	263.4	302.9	263.80	88.7	261.9	0.0026	4.7	128.1	2.9	-3.7
18.7	4071	32.1	0.01438	70.6	0.09	600.0	2.7782	262.4	303.6	262.79	87.6	260.7	0.0024	5.7	122.4	3.0	-4.8
19.0	4149	31.8	0.01463	70.2	0.09	594.0	2.7738	261.9	304.0	262.31	87.1	260.2	0.0024	6.2	120.3	3.1	-5.3
20.0	4371	31.2	0.01536	69.1	0.09	577.0	2.7612	260.2	304.5	260.56	84.3	258.1	0.0020	6.4	127.4	3.9	-5.1
21.0	4625	28.5	0.01614	63.7	0.08	558.0	2.7466	258.4	305.3	258.70	82.6	256.1	0.0018	6.5	145.5	5.4	-3.7
22.0	4914	27.8	0.01700	62.6	0.09	537.0	2.7300	256.6	306.5	256.87	82.1	254.3	0.0016	7.1	149.2	6.1	-3.6
23.0	5212	28.5	0.01788	64.5	0.09	516.0	2.7126	254.7	307.7	254.92	79.8	252.1	0.0014	6.8	157.3	6.3	-2.6
23.9	5445	27.9	0.01858	63.7	0.09	500.0	2.6990	252.7	308.0	252.86	78.3	249.9	0.0011	6.7	158.6	6.3	-2.5
24.0	5475	27.8	0.01867	63.6	0.09	498.0	2.6972	252.4	308.1	252.59	78.1	249.6	0.0011	6.7	158.8	6.3	-2.4
25.0	5746	26.0	0.01945	59.8	0.09	480.0	2.6812	251.3	310.0	251.51	76.0	248.3	0.0010	8.1	161.4	7.6	-2.6
26.0	6042	27.9	0.02031	64.7	0.10	461.0	2.6637	249.5	311.3	249.62	72.8	246.0	0.0009	9.8	165.0	9.4	-2.5
27.0	6282	28.6	0.02105	66.8	0.11	446.0	2.6493	247.4	311.6	247.48	70.5	243.6	0.0007	10.9	160.5	10.3	-3.6
28.0	6562	26.0	0.02189	61.1	0.10	429.0	2.6325	245.3	312.4	245.36	69.0	241.4	0.0006	12.8	153.6	11.5	-5.7
29.0	6868	24.6	0.02274	58.6	0.10	411.0	2.6138	242.8	313.0	242.84	68.2	238.8	0.0005	11.1	159.1	10.4	-4.0
29.8	7059	26.2	0.02329	62.8	0.11	400.0	2.6021	240.9	313.0	240.98	67.0	236.9	0.0004	10.9	173.3	10.9	-1.3
30.0	7113	26.6	0.02344	63.9	0.11	397.0	2.5988	240.4	313.0	240.46	66.7	236.3	0.0004	11.0	177.2	11.0	-0.5
31.0	7419	52.9	0.02482	128.5	0.23	380.0	2.5798	237.8	313.5	237.80	56.3	232.2	0.0003	16.2	174.2	16.1	-1.6
32.0	7660	78.4	0.02662	191.9	0.35	367.0	2.5647	235.9	314.1	235.92	43.8	228.1	0.0002	20.2	172.0	20.0	-2.8
33.0	7968	87.9	0.02954	214.9	0.41	351.0	2.5453	236.0	318.3	236.05	40.7	227.6	0.0002	26.0	176.3	26.0	-1.7
33.1	7987	87.7	0.02974	214.5	0.41	350.0	2.5441	235.9	318.5	235.97	40.6	227.5	0.0002	26.6	176.5	26.5	-1.6
34.0	8228	85.1	0.03212	209.2	0.42	338.0	2.5289	235.0	320.3	234.98	39.0	226.2	0.0002	32.8	178.9	32.8	-0.6
35.0	8518	75.8	0.03481	186.9	0.39	324.0	2.5105	234.1	323.1	234.17	37.4	225.1	0.0001	32.7	177.7	32.6	-1.3
36.0	8797	71.4	0.03718	177.7	0.38	311.0	2.4928	232.0	323.9	231.98				32.8	178.5	32.8	-0.8
36.9	9040	70.9	0.03921	177.7	0.39	300.0	2.4771	230.5	325.1	230.47				32.7	176.8	32.7	-1.8
37.0	9063	70.9	0.03939	177.7	0.39	299.0	2.4757	230.3	325.2	230.33				32.7	176.6	32.7	-1.9
38.0	9385	72.1	0.04210	181.3	0.42	285.0	2.4548	229.5	328.5	229.49				31.7	177.9	31.7	-1.1
39.0	9698	63.4	0.04459	160.0	0.39	272.0	2.4346	228.9	332.1	228.94				27.3	176.9	27.3	-1.5
40.0	9999	75.6	0.04707	191.7	0.48	260.0	2.4150	227.7	334.5	227.67				18.8	164.0	18.0	-5.2
41.0	10260	64.4	0.04923	163.3	0.43	250.0	2.3979	227.7	338.3	227.67				18.1	155.7	16.5	-7.4
42.0	10559	63.6	0.05151	161.8	0.44	239.0	2.3784	226.8	341.4	226.81				22.0	167.1	21.4	-4.9
43.0	10871	62.7	0.05385	160.1	0.46	228.0	2.3579	226.1	344.9	226.10				24.2	178.0	24.2	-0.8
44.0	11197	63.3	0.05631	162.6	0.48	217.0	2.3365	224.6	347.6	224.64				26.9	179.2	26.9	-0.4
45.0	11506	68.1	0.05876	176.0	0.55	207.0	2.3160	223.3	350.2	223.32				28.8	191.6	28.3	5.8
45.8	11730	71.3	0.06066	185.0	0.59	200.0	2.3010	222.5	352.4	222.51				25.1	284.5	22.8	10.4
46.0	11796	72.2	0.06122	187.7	0.60	198.0	2.2967	222.3	353.0	222.27				24.3	289.0	21.3	11.8
47.0	12133	83.3	0.06440	215.8	0.73	188.0	2.2742	222.9	359.3	222.87				21.3	217.2	16.9	12.9
48.0	12525	91.6	0.06856	238.3	0.86	177.0	2.2480	222.0	364.0	221.97				14.6	237.5	7.8	12.3
49.0	12827	100.3	0.07206	257.9	0.98	169.0	2.2279	224.5	373.1	224.50				9.5	222.4	7.0	6.4
50.0	13185	102.3	0.07643	264.8	1.06	160.0	2.2041	223.0	376.5	223.02				16.3	204.6	14.8	6.8

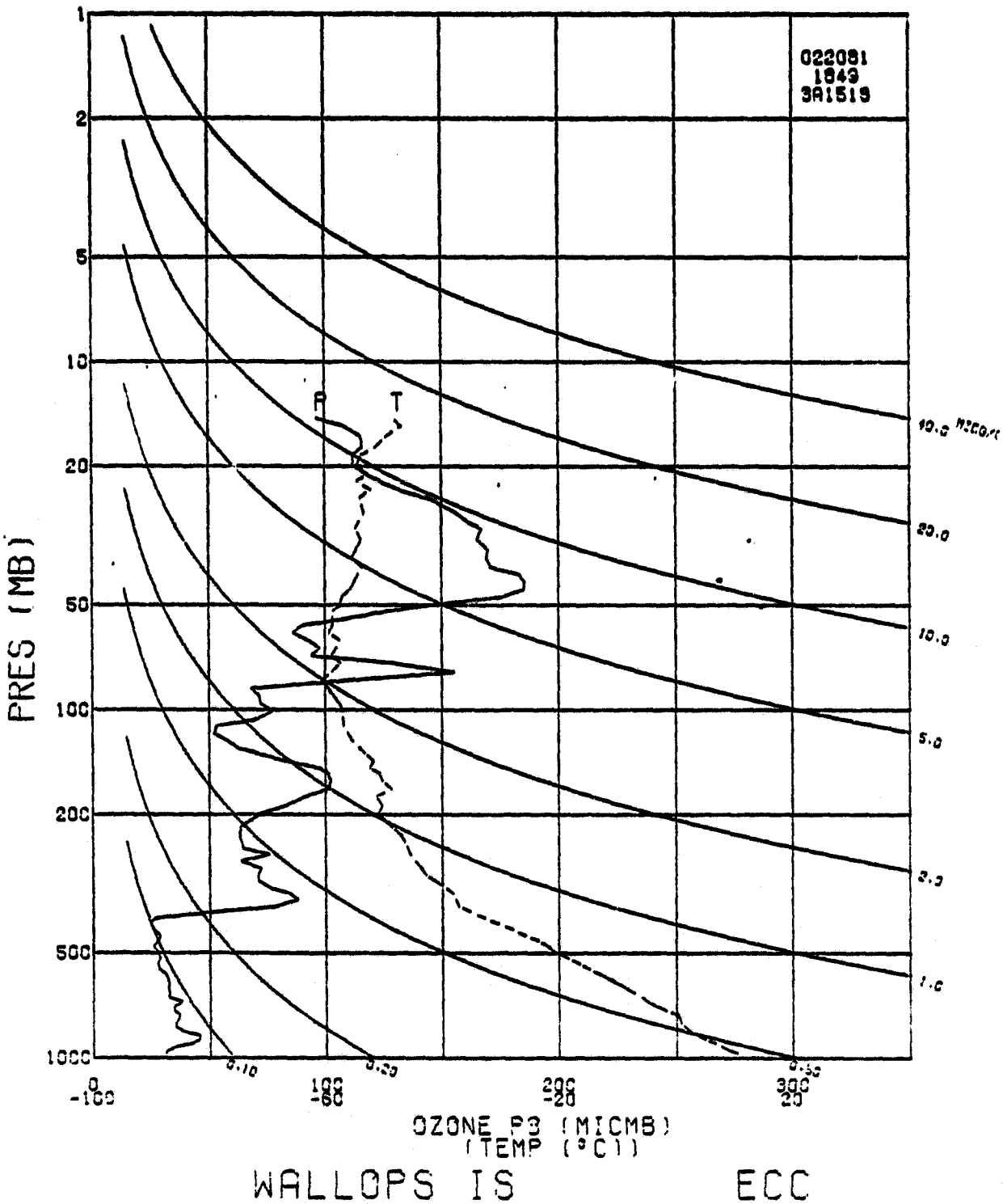
STATION WALLOPS IS LAUNCH DATE 22081 LAUNCH TIME 1849 GMT ECC SONDE 3A1518X

51.0	13519	100.7	0.08054	261.4	1.10	152.0	2.1818	222.4	381.0	222.42	15.9	243.7	7.0	14.2
51.4	13604	99.4	0.08157	258.7	1.10	150.0	2.1761	221.8	381.3	221.76	15.3	254.6	4.1	14.8
52.0	13736	97.3	0.08315	254.6	1.10	147.0	2.1673	220.7	381.8	220.75	15.6	271.5	-0.4	15.6
53.0	14051	82.5	0.08661	215.1	0.98	140.0	2.1461	221.4	388.2	221.36	13.0	271.7	-0.4	13.0
54.0	14382	70.4	0.08971	185.0	0.88	133.0	2.1239	219.8	391.2	219.82	8.4	245.7	3.5	7.7
55.0	14578	62.3	0.09131	164.3	0.80	129.0	2.1106	219.0	393.2	219.03	10.3	220.2	7.9	6.7
55.6	14778	59.3	0.09279	156.9	0.79	125.0	2.0969	218.1	395.1	218.13	9.7	228.6	6.4	7.3
56.0	14934	56.9	0.09393	151.1	0.77	122.0	2.0864	217.4	396.6	217.43	9.3	235.7	5.3	7.7
57.0	15200	52.0	0.09573	138.2	0.74	117.0	2.0682	217.1	400.8	217.11	8.9	241.0	4.3	7.8
58.0	15533	52.9	0.09791	141.2	0.79	111.0	2.0453	216.1	405.0	216.12	10.7	331.3	-9.4	5.2
59.0	15764	69.5	0.09968	186.3	1.08	107.0	2.0294	215.5	408.0	215.46	8.9	322.1	-7.0	5.5
60.0	16128	77.2	0.10302	206.4	1.27	101.0	2.0043	216.0	415.8	215.96	17.1	231.7	10.6	13.4
60.2	16190	76.3	0.10361	204.0	1.26	100.0	2.0000	215.9	416.8	215.86	17.4	234.1	10.2	14.1
61.0	16455	72.3	0.10608	193.8	1.25	95.9	1.9818	215.5	421.0	215.46	18.9	243.2	8.5	16.9
62.0	16778	71.5	0.10899	192.4	1.30	91.1	1.9595	214.4	425.2	214.44	16.7	259.2	3.1	16.4
63.0	17081	68.0	0.11165	183.8	1.30	86.8	1.9385	213.6	429.4	213.58	14.8	296.4	-6.6	13.3
64.0	17428	110.1	0.11556	299.4	2.22	82.1	1.9143	212.4	433.8	212.35	14.4	279.8	-2.4	14.2
64.5	17589	131.7	0.11827	356.3	2.74	80.0	1.9031	213.3	438.9	213.28	13.0	263.5	1.5	12.9
65.0	17764	155.0	0.12119	417.6	3.30	77.8	1.8910	214.3	444.5	214.27	12.8	243.9	5.7	11.5
66.0	18156	128.8	0.12816	344.9	2.92	73.1	1.8639	215.6	455.3	215.62	10.8	242.5	5.0	9.6
67.0	18428	95.1	0.13197	256.2	2.25	70.0	1.8451	214.3	458.2	214.31	14.2	203.5	-3.3	13.8
67.0	18437	94.0	0.13210	253.3	2.23	69.9	1.8445	214.3	458.3	214.27	14.4	284.4	-3.6	14.0
68.0	18740	97.4	0.13575	262.2	2.42	66.6	1.8235	214.6	465.4	214.61	13.9	317.7	-10.3	9.4
69.0	19070	92.7	0.13968	248.5	2.43	63.2	1.8007	215.5	474.3	215.46	5.9	268.0	0.2	5.9
70.0	19386	86.4	0.14324	233.3	2.38	60.1	1.7789	213.8	477.3	213.75	13.2	237.6	7.1	11.1
70.0	19396	86.5	0.14335	233.6	2.39	60.0	1.7782	213.8	477.6	213.77	13.0	239.0	6.7	11.1
71.0	19706	90.2	0.14680	243.0	2.62	57.1	1.7566	214.3	485.5	214.27	11.4	293.6	-4.6	10.5
72.0	19987	108.8	0.15032	293.0	3.30	54.6	1.7372	214.4	492.2	214.44	10.6	341.6	-10.0	3.3
73.0	20281	125.7	0.15466	338.5	4.00	52.1	1.7168	214.4	498.8	214.44	3.2	343.8	-3.1	0.9
73.9	20539	144.2	0.15907	386.3	4.78	50.0	1.6990	215.5	507.2	215.52	8.7	16.7	-8.3	-2.5
74.0	20565	146.0	0.15950	390.9	4.86	49.8	1.6972	215.6	508.1	215.62	9.3	17.8	-8.8	-2.8
75.0	20903	176.0	0.16631	470.6	6.18	47.2	1.6739	216.0	516.7	215.96	4.1	13.3	-4.0	-0.9
76.0	21205	185.3	0.17311	492.0	6.82	45.0	1.6532	217.4	527.4	217.43	6.2	205.8	5.6	2.7
77.0	21524	185.5	0.18045	491.0	7.18	42.8	1.6314	218.1	536.6	218.08	2.1	205.9	1.9	0.9
78.0	21830	183.3	0.18741	484.1	7.44	40.8	1.6107	218.6	545.1	218.56	5.3	205.8	4.8	2.3
78.4	21956	178.4	0.19017	470.5	7.39	40.0	1.6021	218.9	549.2	218.93	6.0	205.8	5.4	2.6
79.0	22152	170.9	0.19443	449.6	7.30	38.8	1.5888	219.5	555.4	219.50	7.1	205.8	6.4	3.1
80.0	22490	169.1	0.20153	448.7	7.61	36.8	1.5658	217.6	559.0	217.59	6.3	205.8	5.6	2.7
80.9	22810	169.7	0.20824	449.0	8.04	35.0	1.5441	218.3	568.9	218.28	7.1	209.6	6.2	3.5
81.0	22865	169.8	0.20939	449.0	8.11	34.7	1.5403	218.4	570.5	218.40	7.3	210.2	6.3	3.7

STATION WALLOPS IS LAUNCH DATE 22081 LAUNCH TIME 1849 GMT ECC SONDE 3A1518X

82.0	23304	165.1	0.21845	434.9	8.44	32.4	1.5105	219.2	584.0	219.19	5.2	220.2	4.0	3.4
83.0	23754	166.8	0.22766	441.3	9.15	30.2	1.4800	218.2	593.2	218.24	5.3	221.7	4.0	3.5
83.1	23796	166.0	0.22852	439.2	9.17	30.0	1.4771	218.2	594.2	218.19	5.5	222.4	4.1	3.7
84.0	24057	160.9	0.23379	426.2	9.26	28.8	1.4594	217.9	600.4	217.92	7.0	226.1	4.8	5.0
85.0	24399	156.4	0.24049	411.1	9.49	27.3	1.4362	219.7	614.6	219.66	6.6	237.9	3.5	5.6
86.0	24713	150.9	0.24640	395.4	9.62	26.0	1.4150	220.3	624.9	220.28	8.2	228.9	5.4	6.2
86.8	24965	145.9	0.25097	384.2	9.67	25.0	1.3979	219.3	629.2	219.33	4.1	249.2	2.0	3.5
87.0	25043	144.4	0.25238	380.7	9.69	24.7	1.3927	219.0	630.6	219.03	2.9	250.0	1.0	2.7
88.0	25418	132.2	0.25875	345.6	9.40	23.3	1.3674	220.9	646.6	220.90	2.1	226.6	1.5	1.5
89.0	25758	124.0	0.26410	327.6	9.30	22.1	1.3444	218.6	649.5	218.56	8.6	209.2	7.5	4.2
90.0	26086	117.2	0.26895	307.1	9.24	21.0	1.3222	220.3	664.3	220.28	8.5	209.3	7.4	4.2
90.8	26399	112.7	0.27336	297.2	9.34	20.0	1.3010	219.0	669.6	218.98	8.5	207.8	7.5	3.9
91.0	26464	111.8	0.27427	295.2	9.36	19.8	1.2967	218.7	670.7	218.71	8.4	207.5	7.5	3.9
92.0	26864	111.8	0.27978	294.4	9.96	18.6	1.2695	219.2	684.3	219.19	8.4	207.1	7.5	3.8
93.0	27220	115.9	0.28475	301.6	10.91	17.6	1.2455	221.8	703.5	221.82	11.1	215.2	9.1	6.4
93.1	27257	115.8	0.28527	301.2	10.97	17.5	1.2430	222.0	705.1	221.96	999.9	999.9	999.9	999.9
94.0	27680	115.1	0.29118	297.3	11.63	16.4	1.2148	223.6	723.7	223.61	999.9	999.9	999.9	999.9
95.0	28137	108.2	0.29730	276.2	11.72	15.3	1.1847	226.2	746.8	226.24	999.9	999.9	999.9	999.9
95.4	28267	103.8	0.29890	265.6	11.46	15.0	1.1761	225.7	749.3	225.71	999.9	999.9	999.9	999.9
96.0	28491	96.3	0.30164	247.4	11.01	14.5	1.1614	224.8	753.5	224.79	999.9	999.9	999.9	999.9

ORIGINAL PAGE IS
OF POOR QUALITY



WALLOPS IS ECC

STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1723 GMT ECC SONDE 3A1557X

SURFACE CONDITIONS
PRESS 1013.2 MB
TEMP 283.1 K
HUMY 48.0 %

O03 = 27.0
OIZ = 26.8
OZC = 56.9
IO = 0.036
PS = 29.9

TBOX CAL = 30.0 C AT 74.4 ORD
BASE CAL = 30.0 C AT 73.8 ORD
HUMIDITY = 62.4 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.29336	
RESIDUAL OZONE	0.04670	
TOTAL OZONE	0.34006	0.32200

ADDITIONAL DOBSON INFORMATION

Observation Type: 5
Wavelength: 0
Air Mass: 1.448
GMT: 1700

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	31.0	0.	63.3	0.05	1013.2	3.0057	283.1	282.1	283.82	53.6	274.1	0.0040	12.0	320.0	-9.2	7.7
0.3	111	31.0	0.00032	63.6	0.05	1000.0	3.0000	281.6	281.6	282.29	56.5	273.4	0.0038	999.9	999.9	999.9	999.9
1.0	362	31.0	0.00107	64.4	0.05	970.0	2.9868	278.1	280.6	278.72	63.2	271.7	0.0035	999.9	999.9	999.9	999.9
2.0	755	31.2	0.00226	65.5	0.06	924.0	2.9657	274.4	280.7	274.99	75.6	270.6	0.0034	999.9	999.9	999.9	999.9
2.6	966	33.3	0.00294	70.2	0.06	900.0	2.9542	273.5	281.9	274.12	84.8	271.2	0.0038	999.9	999.9	999.9	999.9
3.0	1128	34.9	0.00347	73.9	0.07	882.0	2.9455	272.8	282.8	273.44	91.8	271.6	0.0039	999.9	999.9	999.9	999.9
3.8	1424	41.9	0.00462	88.3	0.08	850.0	2.9294	274.2	287.3	274.92	86.5	272.2	0.0042	999.9	999.9	999.9	999.9
4.0	1500	43.7	0.00491	92.0	0.09	842.0	2.9253	274.6	288.4	275.30	85.1	272.4	0.0043	999.9	999.9	999.9	999.9
5.0	1911	40.3	0.00661	85.2	0.08	800.0	2.9031	273.3	291.3	273.94	81.9	270.6	0.0039	999.9	999.9	999.9	999.9
6.0	2320	40.3	0.00824	86.0	0.09	760.0	2.8808	270.7	292.8	271.31	83.2	268.3	0.0035	999.9	999.9	999.9	999.9
7.0	2747	37.9	0.00991	81.7	0.09	720.0	2.8573	268.1	294.5	268.62	85.5	266.1	0.0031	999.9	999.9	999.9	999.9
7.5	2967	37.3	0.01074	80.7	0.09	700.0	2.8451	266.6	295.2	267.13	91.1	265.4	0.0030	999.9	999.9	999.9	999.9
8.0	3148	36.7	0.01142	79.9	0.09	684.0	2.8351	265.4	295.8	265.90	95.7	264.8	0.0030	999.9	999.9	999.9	999.9
9.0	3543	33.1	0.01282	72.7	0.08	650.0	2.8129	263.2	297.7	263.66	97.7	262.9	0.0027	999.9	999.9	999.9	999.9
10.0	3981	34.9	0.01435	77.1	0.09	614.0	2.7882	261.8	300.9	262.10	73.0	257.9	0.0019	999.9	999.9	999.9	999.9
10.4	4157	34.1	0.01497	75.3	0.09	600.0	2.7782	261.0	302.1	261.33	71.7	257.0	0.0017	999.9	999.9	999.9	999.9
11.0	4416	32.8	0.01588	72.8	0.09	580.0	2.7634	260.0	303.7	260.21	69.7	255.6	0.0016	999.9	999.9	999.9	999.9
12.0	4873	33.3	0.01745	75.0	0.10	546.0	2.7372	256.2	304.6	256.42	72.5	252.5	0.0013	999.9	999.9	999.9	999.9
13.0	5323	32.1	0.01901	73.2	0.10	514.0	2.7110	252.8	305.8	253.02	87.9	251.3	0.0013	999.9	999.9	999.9	999.9
13.5	5525	31.8	0.01970	73.1	0.11	500.0	2.6990	251.1	306.1	251.29	91.0	250.0	0.0011	999.9	999.9	999.9	999.9
14.0	5765	31.5	0.02052	73.0	0.11	484.0	2.6848	249.1	306.5	249.25	94.6	248.5	0.0011	999.9	999.9	999.9	999.9

STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1723 GMT ECC SONDE 3A1557X

15.0	6196	32.0	0.02201	75.2	0.12	456.0	2.6590	245.7	307.5	245.73	55.4	239.5	0.0005	999.9	999.9	999.9	999.9
16.0	6715	33.1	0.02388	79.0	0.13	424.0	2.6274	241.6	308.7	241.63	41.5	232.9	0.0003	999.9	999.9	999.9	999.9
17.0	7125	50.6	0.02580	122.1	0.21	400.0	2.6021	239.3	311.0	239.37	30.5	228.0	0.0002	999.9	999.9	999.9	999.9
18.0	7593	63.1	0.02882	154.0	0.28	374.0	2.5729	236.7	313.5	236.71	27.9	224.9	0.0001	999.9	999.9	999.9	999.9
19.0	8051	50.1	0.03178	122.9	0.24	350.0	2.5441	235.1	317.3	235.11	27.3	223.3	0.0001	999.9	999.9	999.9	999.9
20.0	8537	44.3	0.03442	110.0	0.23	326.0	2.5132	232.4	320.1	232.39				999.9	999.9	999.9	999.9
21.0	9053	37.9	0.03690	95.5	0.21	302.0	2.4800	228.9	322.3	228.94				999.9	999.9	999.9	999.9
21.1	9097	39.1	0.03713	98.7	0.22	300.0	2.4771	228.7	322.6	228.72				999.9	999.9	999.9	999.9
22.0	9486	50.1	0.03915	127.5	0.29	283.0	2.4518	226.8	325.3	226.81				999.9	999.9	999.9	999.9
23.0	9997	50.2	0.04220	128.2	0.32	262.0	2.4183	226.1	331.5	226.10				999.9	999.9	999.9	999.9
23.7	10305	42.8	0.04385	110.1	0.28	250.0	2.3979	224.3	333.3	224.27				999.9	999.9	999.9	999.9
24.0	10465	39.0	0.04471	100.8	0.26	244.0	2.3874	223.3	334.2	223.32				999.9	999.9	999.9	999.9
25.0	10969	51.4	0.04744	131.1	0.38	226.0	2.3541	226.2	346.0	226.24				999.9	999.9	999.9	999.9
26.0	11428	55.7	0.05034	139.6	0.44	211.0	2.3243	230.3	359.3	230.33				999.9	999.9	999.9	999.9
26.8	11788	45.5	0.05242	114.1	0.38	200.0	2.3010	230.1	364.5	230.11				999.9	999.9	999.9	999.9
27.0	11890	42.6	0.05300	106.9	0.36	197.0	2.2945	230.1	365.9	230.05				999.9	999.9	999.9	999.9
28.0	12239	33.9	0.05458	85.7	0.30	187.0	2.2718	228.2	368.5	228.23				999.9	999.9	999.9	999.9
29.0	12643	36.2	0.05625	92.0	0.34	176.0	2.2455	227.1	373.1	227.10				999.9	999.9	999.9	999.9
30.0	13030	39.6	0.05800	101.4	0.40	166.0	2.2201	225.7	377.0	225.66				999.9	999.9	999.9	999.9
31.0	13396	26.8	0.05946	69.3	0.28	157.0	2.1959	223.3	379.0	223.32				999.9	999.9	999.9	999.9
31.8	13692	26.3	0.06042	68.6	0.29	150.0	2.1761	221.7	381.2	221.69				999.9	999.9	999.9	999.9
32.0	13780	26.2	0.06070	68.4	0.29	148.0	2.1703	221.2	381.8	221.21				999.9	999.9	999.9	999.9
33.0	14184	24.9	0.06196	65.8	0.30	139.0	2.1430	218.7	384.4	218.71				999.9	999.9	999.9	999.9
34.0	14661	23.7	0.06340	62.7	0.30	129.0	2.1106	218.2	391.8	218.24				999.9	999.9	999.9	999.9
34.5	14860	24.0	0.06399	63.9	0.32	125.0	2.0969	216.9	392.8	216.87				999.9	999.9	999.9	999.9
35.0	15067	24.3	0.06461	65.1	0.33	121.0	2.0828	215.5	393.9	215.46				999.9	999.9	999.9	999.9
36.0	15551	23.2	0.06606	63.1	0.34	112.0	2.0492	212.7	397.6	212.71				999.9	999.9	999.9	999.9
37.0	16008	23.8	0.06743	65.8	0.38	104.0	2.0170	209.0	399.1	209.04				999.9	999.9	999.9	999.9
37.5	16247	26.3	0.06824	72.7	0.44	100.0	2.0000	209.0	403.6	209.04				999.9	999.9	999.9	999.9
38.0	16453	28.5	0.06893	78.7	0.49	96.7	1.9854	209.0	407.5	209.04				999.9	999.9	999.9	999.9
39.0	16919	44.5	0.07113	123.0	0.82	89.6	1.9523	208.9	416.1	208.85				999.9	999.9	999.9	999.9
40.0	17269	48.3	0.07323	134.0	0.95	84.6	1.9274	207.9	421.0	207.88				999.9	999.9	999.9	999.9
40.8	17610	60.2	0.07568	165.7	1.25	80.0	1.9031	209.6	431.4	209.63				999.9	999.9	999.9	999.9
41.0	17680	62.6	0.07617	172.1	1.31	79.1	1.8982	210.0	433.5	209.98				999.9	999.9	999.9	999.9
42.0	18142	87.7	0.08061	238.2	1.98	73.4	1.8657	212.5	448.2	212.53				999.9	999.9	999.9	999.9
42.6	18434	94.6	0.08411	259.3	2.25	70.0	1.8451	210.8	450.6	210.78				999.9	999.9	999.9	999.9
43.0	18632	99.3	0.08646	273.5	2.43	67.8	1.8312	209.6	452.2	209.61				999.9	999.9	999.9	999.9
44.0	19112	120.4	0.09324	330.8	3.18	62.7	1.7973	210.2	463.7	210.17				999.9	999.9	999.9	999.9
44.7	19383	141.7	0.09798	386.4	3.93	60.0	1.7782	211.6	472.8	211.63				999.9	999.9	999.9	999.9
45.0	19519	152.3	0.10033	414.0	4.30	58.7	1.7686	212.4	477.4	212.35				999.9	999.9	999.9	999.9

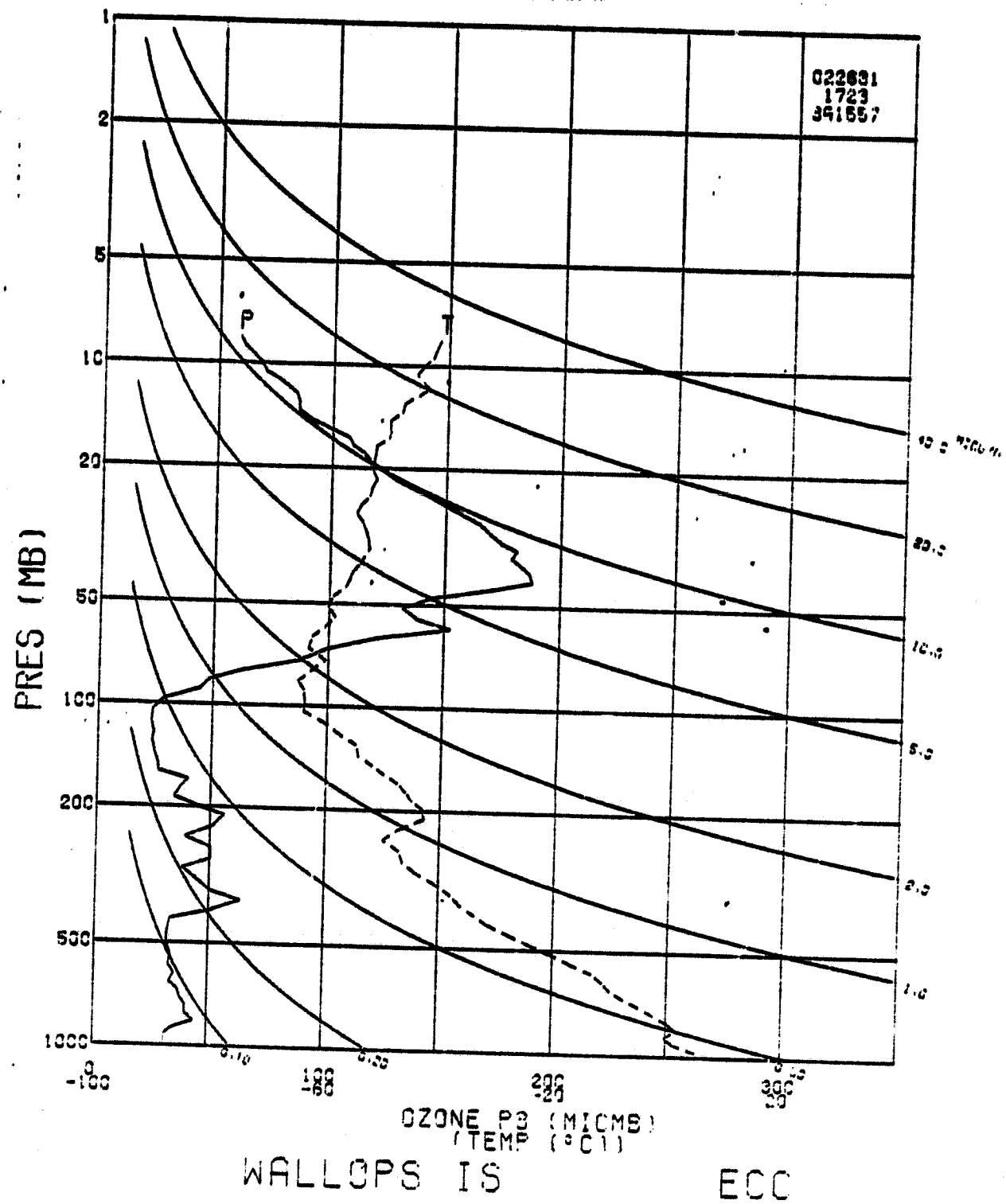
STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1723 GMT ECC SONDE 3A1557X

46.0	19948	138.1	0.10821	372.5	4.18	54.8	1.7388	214.1	490.9	214.10	999.9	999.9	999.9	999.9
47.0	20397	132.0	0.11587	358.0	4.29	51.0	1.7076	212.9	498.2	212.88	999.9	999.9	999.9	999.9
47.3	20520	135.5	0.11803	366.9	4.50	50.0	1.6990	213.1	501.6	213.13	999.9	999.9	999.9	999.9
48.0	20828	144.1	0.12338	389.2	5.02	47.6	1.6776	213.8	510.2	213.75	999.9	999.9	999.9	999.9
49.0	21237	170.5	0.13146	455.8	6.33	44.6	1.6493	216.0	525.1	215.96	999.9	999.9	999.9	999.9
50.0	21572	187.5	0.13894	499.7	7.34	42.3	1.6263	216.6	534.8	216.62	999.9	999.9	999.9	999.9
51.0	21895	186.6	0.14646	496.3	7.69	40.2	1.6042	217.1	543.8	217.11	999.9	999.9	999.9	999.9
51.1	21926	186.3	0.14718	495.1	7.72	40.0	1.6021	217.2	544.9	217.23	999.9	999.9	999.9	999.9
52.0	22237	182.9	0.15428	483.5	7.95	38.1	1.5809	218.4	555.5	218.40	999.9	999.9	999.9	999.9
53.0	22564	178.7	0.16158	471.6	8.18	36.2	1.5587	218.7	564.5	218.71	999.9	999.9	999.9	999.9
53.7	22780	180.0	0.16635	473.3	8.52	35.0	1.5441	219.5	572.2	219.55	999.9	999.9	999.9	999.9
54.0	22891	180.6	0.16880	474.1	8.70	34.4	1.5366	220.0	576.1	219.97	999.9	999.9	999.9	999.9
55.0	23237	173.9	0.17632	456.9	8.84	32.6	1.5132	219.8	584.6	219.82	999.9	999.9	999.9	999.9
56.0	23623	169.2	0.18445	445.4	9.13	30.7	1.4871	219.3	593.4	219.35	999.9	999.9	999.9	999.9
56.4	23770	167.6	0.18749	441.6	9.26	30.0	1.4771	219.1	596.8	219.12	999.9	999.9	999.9	999.9
57.0	24032	164.7	0.19287	434.9	9.48	28.8	1.4594	218.7	602.6	218.71	999.9	999.9	999.9	999.9
58.0	24397	157.7	0.20014	418.4	9.61	27.2	1.4346	217.6	609.4	217.59	999.9	999.9	999.9	999.9
59.0	24784	150.0	0.20750	396.4	9.71	25.6	1.4082	218.4	622.3	218.40	999.9	999.9	999.9	999.9
59.4	24936	147.1	0.21024	387.8	9.75	25.0	1.3979	219.0	628.4	219.01	999.9	999.9	999.9	999.9
60.0	25171	142.7	0.21447	374.6	9.81	24.1	1.3820	220.0	637.7	219.97	999.9	999.9	999.9	999.9
61.0	25528	135.4	0.22056	355.0	9.84	22.8	1.3579	220.3	648.8	220.28	999.9	999.9	999.9	999.9
62.0	25877	128.1	0.22618	334.7	9.83	21.6	1.3345	221.1	661.3	221.05	999.9	999.9	999.9	999.9
63.0	26246	122.7	0.23184	321.5	9.97	20.4	1.3096	220.4	670.3	220.44	999.9	999.9	999.9	999.9
63.3	26373	120.9	0.23371	316.7	10.02	20.0	1.3010	220.4	674.1	220.44	999.9	999.9	999.9	999.9
64.0	26637	117.2	0.23757	307.0	10.12	19.2	1.2833	220.4	682.0	220.44	999.9	999.9	999.9	999.9
65.0	26982	114.3	0.24246	299.0	10.41	18.2	1.2601	220.7	693.4	220.75	999.9	999.9	999.9	999.9
65.7	27235	110.7	0.24592	289.4	10.48	17.5	1.2430	220.9	701.6	220.85	999.9	999.9	999.9	999.9
66.0	27347	109.1	0.24744	285.1	10.51	17.2	1.2355	220.9	705.2	220.90	999.9	999.9	999.9	999.9
67.0	27696	107.2	0.25203	277.3	10.90	16.3	1.2122	223.2	723.5	223.17	999.9	999.9	999.9	999.9
68.0	28067	99.0	0.25665	256.0	10.65	15.4	1.1875	223.3	735.8	223.32	999.9	999.9	999.9	999.9
68.4	28238	95.2	0.25862	246.2	10.51	15.0	1.1761	223.3	741.4	223.32	999.9	999.9	999.9	999.9
69.0	28460	90.3	0.26115	233.5	10.32	14.5	1.1614	223.3	748.6	223.32	999.9	999.9	999.9	999.9
70.0	28832	85.0	0.26507	217.9	10.28	13.7	1.1367	225.2	767.3	225.23	999.9	999.9	999.9	999.9
71.0	29229	84.8	0.26910	216.9	10.89	12.9	1.1106	225.7	782.2	225.66	999.9	999.9	999.9	999.9
71.6	29437	84.3	0.27120	214.3	11.17	12.5	1.0969	227.0	794.1	227.03	999.9	999.9	999.9	999.9
72.0	29599	83.9	0.27282	212.3	11.39	12.2	1.0864	228.1	803.3	228.09	999.9	999.9	999.9	999.9
73.0	29879	80.5	0.27553	202.4	11.40	11.7	1.0682	229.6	818.4	229.63	999.9	999.9	999.9	999.9
74.0	30172	77.0	0.27824	193.9	11.39	11.2	1.0492	229.2	827.2	229.21	999.9	999.9	999.9	999.9
75.0	30540	70.7	0.28145	179.2	11.05	10.6	1.0253	227.7	834.6	227.67	999.9	999.9	999.9	999.9
76.0	30862	69.0	0.28411	174.3	11.32	10.1	1.0043	228.7	849.9	228.65	999.9	999.9	999.9	999.9

STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1723 GMT ECC SONDE 3A1557X

76.2	30928	68.4	0.28464	172.6	11.34	10.0	1.0000	228.9	853.4	228.93	999.9	999.9	999.9	999.9
77.0	31273	65.5	0.28736	164.1	11.42	9.5	0.9777	230.3	871.2	230.33	999.9	999.9	999.9	999.9
78.0	31713	61.1	0.29062	152.6	11.37	8.9	0.9494	231.0	890.3	231.02	999.9	999.9	999.9	999.9
79.0	32104	59.1	0.29336	147.4	11.67	8.4	0.9243	231.7	907.8	231.70	999.9	999.9	999.9	999.9

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1910 GMT ECC SONDE 3A1519X

SURFACE CONDITIONS
PRESS 1013.0 MB
TEMP 283.2 K
HUMY 46.0 %

003 = 26.4
OIZ = 26.0
OZC = 54.8
10 = 0.072
PS = 27.5

TBOX CAL = 30.0 C AT 73.8 ORD
BASE CAL = 30.0 C AT 73.8 ORD
HUMIDITY = 61.1 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.30641	
RESIDUAL OZONE	0.04094	
TOTAL OZONE	0.34736	0.32700

ADDITIONAL DOBSON INFORMATION

Observation Type: 0
Wavelength: 0
Air Mass: 1.632
GMT: 1900

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	28.2	0.	57.6	0.05	1013.0	3.0056	282.8	281.7	283.40	50.9	273.1	0.0037	13.0	322.0	-10.2	8.0
0.3	110	28.8	0.00030	59.2	0.05	1000.0	3.0000	281.3	281.3	281.93	53.7	272.4	0.0035	14.1	322.5	-11.2	8.6
1.0	394	30.5	0.00110	63.5	0.05	966.0	2.9850	277.4	280.2	277.99	61.3	270.7	0.0033	17.0	323.6	-13.7	10.1
2.0	770	30.0	0.00221	63.3	0.05	922.0	2.9647	273.6	280.0	274.13	74.0	269.5	0.0032	16.2	335.1	-14.7	6.8
2.5	963	33.7	0.00285	71.0	0.06	900.0	2.9542	273.7	282.1	274.31	84.0	271.2	0.0040	16.5	343.7	-15.8	4.6
3.0	1144	37.1	0.00345	78.2	0.07	880.0	2.9445	273.8	284.0	274.47	93.3	272.8	0.0042	17.0	351.2	-16.8	2.6
3.7	1422	40.8	0.00453	85.7	0.08	850.0	2.9294	274.7	287.8	275.41	78.6	271.4	0.0038	16.4	357.4	-16.3	0.7
4.0	1518	42.0	0.00490	88.2	0.08	840.0	2.9243	275.1	289.1	275.72	73.5	270.9	0.0038	16.2	359.7	-16.2	0.1
5.0	1880	41.5	0.00638	87.6	0.09	803.0	2.9047	273.4	291.1	274.06	76.6	269.8	0.0037	13.3	346.8	-13.0	3.0
5.1	1909	41.4	0.00650	87.5	0.09	800.0	2.9031	273.2	291.2	273.86	76.5	269.6	0.0036	13.4	346.2	-13.0	3.2
6.0	2246	40.4	0.00787	86.0	0.09	767.0	2.8848	271.1	292.4	271.59	76.0	267.4	0.0032	14.6	339.6	-13.7	5.1
7.0	2637	37.2	0.00938	79.9	0.08	730.0	2.8633	268.9	294.2	269.34	74.3	265.0	0.0028	16.2	339.8	-15.2	5.6
7.8	2966	37.3	0.01061	80.6	0.09	700.0	2.8451	267.6	296.3	268.04	71.4	263.3	0.0025	16.3	339.7	-15.3	5.7
8.0	3034	37.4	0.01087	80.7	0.09	694.0	2.8414	267.4	296.8	267.77	70.8	262.9	0.0025	16.4	339.7	-15.3	5.7
9.0	3426	33.9	0.01228	74.0	0.09	660.0	2.8195	264.8	298.2	265.19	71.8	260.7	0.0022	16.2	339.8	-15.2	5.6
10.0	3810	31.5	0.01356	69.4	0.08	628.0	2.7980	262.2	299.5	262.58	84.2	260.1	0.0022	15.7	339.9	-14.8	5.4
10.9	4158	31.5	0.01470	69.9	0.09	600.0	2.7782	260.1	301.0	260.45	93.6	259.3	0.0022	15.5	339.9	-14.6	5.3
11.0	4184	31.5	0.01478	70.0	0.09	598.0	2.7767	260.0	301.1	260.30	94.2	259.2	0.0022	15.5	339.9	-14.5	5.3
12.0	4561	30.6	0.01600	68.5	0.09	569.0	2.7551	257.9	302.9	258.16	94.1	257.1	0.0019	11.3	338.4	-10.5	4.2
13.0	4954	30.0	0.01725	67.8	0.09	540.0	2.7324	255.8	305.0	256.04	85.2	253.9	0.0015	6.1	333.6	-5.5	2.7
14.0	5365	28.9	0.01853	66.0	0.09	511.0	2.7084	252.6	306.0	252.73	81.4	250.2	0.0012	6.2	332.4	-5.5	2.9

STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1910 GMT ECC SONDE 3A1519X

14.4	5524	29.0	0.01903	66.6	0.10	500.0	2.6990	251.4	306.4	251.52	78.1	248.6	0.0010	6.7	333.7	-6.0	3.0
15.0	5794	29.2	0.01987	67.5	0.10	482.0	2.6830	249.4	307.2	249.48	72.6	245.8	0.000[illegible]	7.4	335.5	-6.8	3.1
16.0	6212	31.5	0.02125	7[illegible]	0.11	455.0	2.6580	246.5	308.6	246.52	47.8	238.7	0.0004	7.6	336.2	-6.9	3.0
17.0	6650	32.6	0.02280	7[illegible]	0.13	428.0	2.6314	242.5	309.0	242.55	44.9	234.5	0.0003	7.3	334.6	-6.6	3.1
18.0	7127	35.4	0.02461	85.2	0.15	400.0	2.6021	239.8	311.6	239.86	23.2	225.9	0.0001	7.3	326.5	-6.1	4.0
18.0	7145	35.5	0.02468	85.5	0.15	399.0	2.6010	239.7	311.7	239.76	22.4	225.6	0.0001	7.3	326.2	-6.0	6.1
19.0	7559	54.3	0.02679	132.6	0.24	376.0	2.5752	236.6	312.8	236.57				9.2	317.4	-6.8	6.2
20.0	7936	49.3	0.02902	121.2	0.23	356.0	2.5515	234.7	315.2	234.70				12.3	313.3	-8.5	8.9
20.3	8052	49.9	0.02970	123.0	0.24	350.0	2.5441	234.4	316.4	234.38				13.2	310.6	-8.6	10.0
21.0	8332	51.5	0.03132	127.3	0.25	336.0	2.5263	233.6	319.0	233.62				15.5	305.5	-9.0	12.6
22.0	8728	50.4	0.03366	126.0	0.26	317.0	2.5011	231.0	320.8	231.02				20.5	304.6	-11.7	16.9
22.9	9098	41.9	0.03565	105.7	0.23	300.0	2.4771	228.7	322.5	228.66				24.5	306.5	-14.6	19.7
23.0	9143	40.8	0.03589	103.3	0.23	298.0	2.4742	228.4	322.8	228.37				25.0	306.7	-14.9	20.0
24.0	9581	49.8	0.03824	127.2	0.30	279.0	2.4456	226.2	325.8	226.24				27.9	308.3	-17.3	21.9
25.0	10046	63.9	0.04141	164.2	0.41	260.0	2.4150	224.8	330.3	224.79				28.1	308.2	-17.3	22.1
25.6	103[illegible]4	59.0	0.04327	151.5	0.39	250.0	2.3979	225.1	334.5	225.06				27.3	309.2	-17.2	21.2
26.0	10464	56.0	0.04442	143.6	0.38	244.0	2.3874	225.2	337.0	225.23				26.9	309.8	-17.2	20.6
27.0	10826	51.0	0.04673	130.2	0.37	231.0	2.3636	226.4	344.1	226.38				24.5	306.8	-14.6	19.6
28.0	11181	49.9	0.04885	126.2	0.38	219.0	2.3404	228.4	352.4	228.37				25.3	291.5	-9.3	23.6
29.0	11591	56.0	0.05141	141.0	0.45	206.0	2.3139	229.4	360.2	229.35				30.3	285.3	-8.0	29.2
29.5	11788	53.2	0.05265	134.0	0.44	200.0	2.3010	229.2	363.0	229.22				30.9	285.0	-8.0	29.9
30.0	11993	50.3	0.05393	126.8	0.43	194.0	2.2878	229.1	366.0	229.08				31.6	286.7	-8.0	30.5
31.0	12310	43.0	0.05568	109.1	0.39	185.0	2.2672	227.7	368.7	227.67				30.5	287.7	-9.3	29.1
32.0	12604	37.9	0.05709	96.2	0.35	177.0	2.2480	227.2	372.7	227.24				29.8	289.1	-9.5	27.4
33.0	12950	38.8	0.05867	99.1	0.38	168.0	2.2253	226.2	376.6	226.24				30.7	286.8	-8.9	29.4
34.0	13272	36.6	0.06012	93.8	0.38	160.0	2.2041	224.9	379.7	224.94				32.3	283.3	-7.6	31.4
35.0	13565	28.0	0.06126	72.2	0.30	153.0	2.1847	223.8	382.6	223.76				27.8	280.7	-5.8	26.6
35.5	13693	26.0	0.06166	67.3	0.29	150.0	2.1761	222.7	383.0	222.72				26.5	281.6	-5.3	26.0
36.0	13825	23.9	0.06208	62.3	0.27	147.0	2.1673	221.7	383.4	221.66				26.1	282.6	-5.7	25.4
37.0	14139	23.2	0.06299	61.4	0.28	140.0	2.1461	218.7	383.6	218.71				28.7	284.7	-7.3	27.8
38.0	14514	23.1	0.06406	61.6	0.29	132.0	2.1206	217.1	387.2	217.11				24.1	286.3	-6.8	23.2
39.0	14758	23.1	0.06477	62.0	0.30	127.0	2.1038	215.5	388.5	215.46				23.6	290.4	-8.2	22.1
39.3	14857	22.8	0.06505	61.2	0.30	125.0	2.0969	215.3	389.9	215.27				24.6	293.1	-9.7	22.6
40.0	15115	22.0	0.06578	59.1	0.30	120.0	2.0792	214.8	393.6	214.78				27.5	299.1	-13.4	24.8
41.0	15546	22.8	0.06700	62.1	0.34	112.0	2.0492	212.2	396.6	212.17				22.3	300.8	-11.4	19.2
42.0	15829	23.4	0.06783	63.8	0.36	107.0	2.0294	211.5	400.4	211.45				19.3	288.7	-6.2	18.3
43.0	16248	25.6	0.06914	69.9	0.42	100.0	2.0000	211.5	408.3	211.45				23.8	284.6	-6.8	23.0
44.0	16495	32.2	0.07004	87.5	0.56	96.1	1.9827	212.5	415.0	212.53				23.4	286.7	-6.7	22.4
45.0	16772	35.6	0.07124	96.9	0.64	91.9	1.9633	212.2	419.6	212.17				20.8	296.5	-8.6	18.9
46.0	17075	40.4	0.07271	110.7	0.76	87.5	1.9420	210.5	422.3	210.54				19.1	301.2	-9.9	16.3

STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1910 GMT ECC SONDE 3A1519X

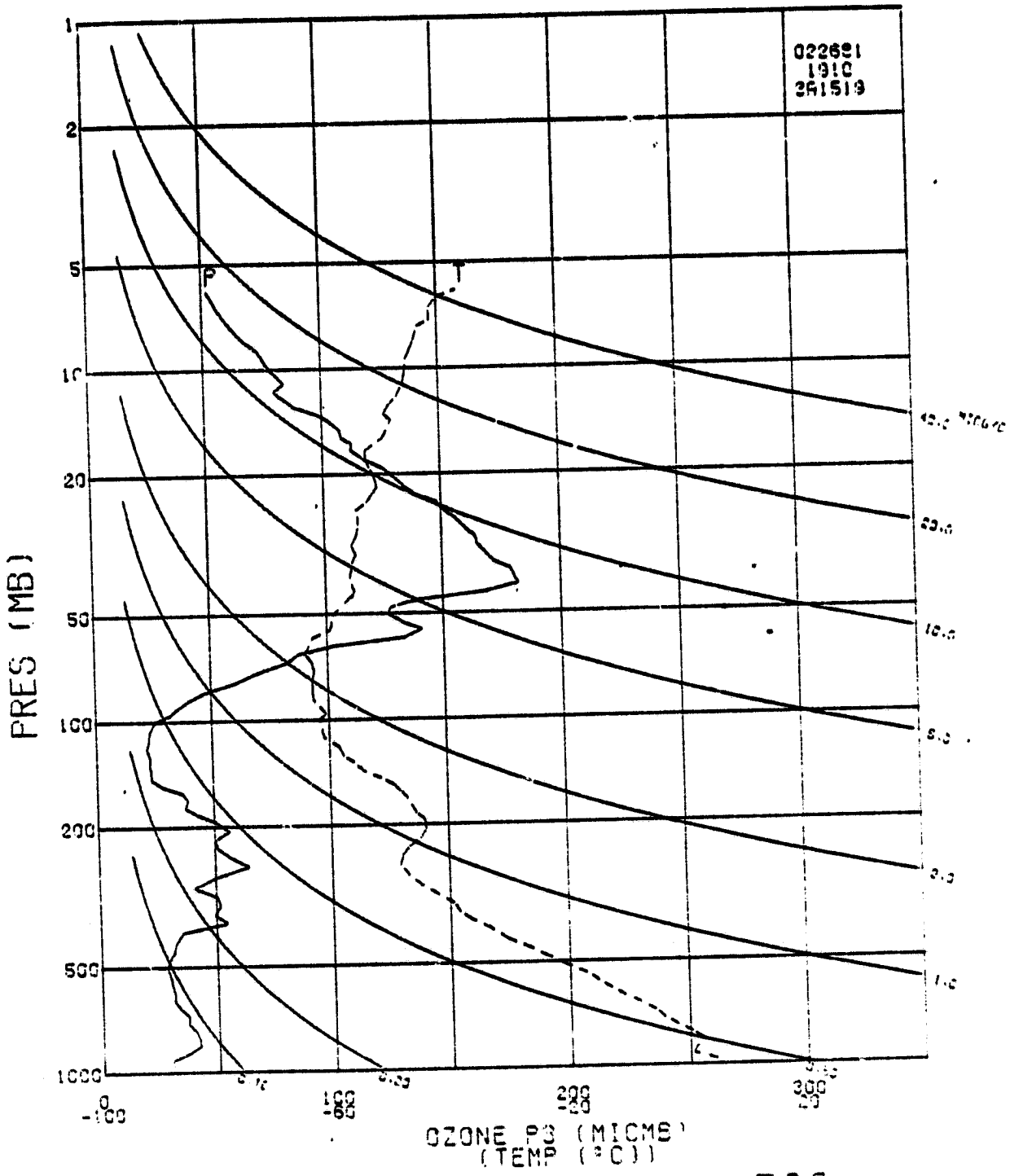
47.0	17415	47.2	0.07462	129.6	0.94	82.8	1.9180	210.4	428.6	210.36	18.8	300.3	-9.5	16.2
47.6	17626	54.6	0.07608	149.9	1.14	80.0	1.9031	210.4	432.9	210.36	19.2	301.1	-9.9	16.4
48.0	17790	60.3	0.07721	165.6	1.28	77.9	1.8915	210.4	436.2	210.36	19.5	301.7	-10.2	16.6
49.0	18190	70.2	0.08055	192.3	1.59	73.0	1.8633	210.7	445.1	210.73	18.9	304.3	-10.7	15.6
49.7	18448	78.7	0.08308	216.0	1.87	70.0	1.8451	210.5	450.0	210.47	17.9	304.1	-10.0	14.8
50.0	18564	82.6	0.08421	226.6	1.99	68.7	1.8370	210.4	452.1	210.36	17.5	304.0	-9.8	14.5
51.0	18904	87.7	0.08793	242.0	2.24	65.0	1.8129	209.2	456.9	209.23	8.6	303.1	-4.7	7.2
52.0	19223	102.1	0.09183	281.6	2.74	61.7	1.7903	209.2	463.7	209.23	7.3	302.8	-4.0	6.2
52.5	19394	119.0	0.09443	327.2	3.30	60.0	1.7782	209.9	469.1	209.94	10.0	300.7	-5.1	8.6
53.0	19539	133.4	0.09662	365.8	3.77	58.6	1.7679	210.5	473.6	210.54	12.2	299.6	-6.0	10.6
54.0	19865	140.4	0.10230	379.6	4.1[illegible]	55.6	1.7451	213.6	487.7	213.58	7.3	289.4	-2.4	6.9
55.0	20164	132.2	0.10745	357.1	4.13	53.0	1.7243	213.8	494.8	213.75	18.8	129.5	12.0	-14.5
56.0	20504	126.4	0.11298	340.6	4.17	50.2	1.7007	214.3	503.7	214.27	9.6	295.2	-4.1	8.7
56.1	20529	126.5	0.11338	340.8	4.19	50.0	1.6990	214.3	504.4	214.31	11.8	297.0	-5.3	10.5
57.0	20785	127.3	0.11747	342.2	4.39	48.0	1.6812	214.8	511.4	214.78	34.3	302.2	-18.3	29.0
58.0	21067	138.5	0.12216	369.2	5.00	45.9	1.6618	216.6	522.4	216.62	8.2	298.2	-3.9	7.2
59.0	21394	167.8	0.12838	444.7	6.38	43.6	1.6395	217.9	533.3	217.92	3.9	284.6	-1.0	3.8
60.0	21724	181.5	0.13551	480.6	7.27	41.4	1.6170	218.1	541.7	218.08	3.2	281.3	-0.6	3.1
60.7	21942	180.4	0.14042	478.9	7.47	40.0	1.6021	217.5	545.6	217.49	4.5	293.3	-1.8	4.1
61.0	22023	180.0	0.14221	478.3	7.55	39.5	1.5966	217.3	547.0	217.27	5.0	296.0	-2.2	4.5
62.0	22353	178.4	0.14956	474.4	7.88	37.5	1.5740	217.1	554.7	217.11	5.9	299.7	-2.9	5.1
63.0	22648	171.3	0.15596	454.5	7.93	35.8	1.5539	217.6	563.4	217.59	10.1	303.5	-5.6	8.4
63.4	22792	170.0	0.15899	450.4	8.05	35.0	1.5441	217.9	567.8	217.88	10.9	304.4	-6.2	9.0
64.0	22977	168.2	0.16287	445.1	8.20	34.0	1.5315	218.2	573.5	218.24	12.0	305.3	-6.9	9.8
65.0	23363	164.6	0.17083	436.8	8.52	32.0	1.5051	217.6	581.8	217.59	8.7	319.3	-6.6	5.6
66.0	23732	163.5	0.17833	432.3	8.97	30.2	1.4800	218.4	593.6	218.40	2.6	354.8	-2.6	0.2
66.2	23774	163.0	0.17918	430.9	9.00	30.0	1.4771	218.4	594.9	218.45	1.9	4.0	-1.9	-0.1
67.0	23991	160.4	0.18351	423.5	9.17	29.0	1.4624	218.7	601.4	218.71	2.4	124.3	1.4	-2.0
68.0	24261	157.9	0.18882	416.6	9.41	27.8	1.4440	218.9	609.2	218.87	2.5	124.3	1.4	-2.0
69.0	24519	155.4	0.19381	410.8	9.64	26.7	1.4265	218.4	614.9	218.40	0.1	124.3	0.1	-0.1
70.0	24863	150.5	0.20031	397.7	9.86	25.3	1.4031	218.6	624.9	218.56	0.7	304.3	-0.4	0.6
70.2	24939	149.9	0.2017[illegible]	395.2	9.93	25.0	1.3979	219.0	628.3	218.98	1.1	300.6	-0.5	0.9
71.0	25175	147.9	0.2060[illegible]	387.5	10.17	24.1	1.3820	220.3	638.6	220.28	2.2	297.0	-1.0	1.9
72.0	25505	138.7	0.21180	362.1	10.04	22.9	1.3598	221.2	650.8	221.21	7.5	300.0	-3.7	6.5
73.0	25824	134.4	0.21711	349.3	10.21	21.8	1.3385	222.1	662.7	222.12	11.1	297.5	-5.1	9.9
74.0	26223	130.3	0.22353	339.1	10.53	20.5	1.3118	221.8	673.5	221.82	12.7	290.4	-4.4	11.9
74.4	26382	128.2	0.22601	334.2	10.62	20.0	1.3010	221.5	677.2	221.47	13.2	282.2	-2.8	12.9
75.0	26647	124.8	0.23012	326.3	10.77	19.2	1.2833	220.9	683.4	220.90	14.5	270.4	-0.1	14.5
76.0	27028	116.9	0.23575	306.3	10.70	18.1	1.2577	220.3	693.1	220.28	14.1	263.8	1.5	14.0
76.6	27245	113.9	0.23879	298.6	10.79	17.5	1.2430	220.3	699.8	220.28	12.9	264.9	1.2	12.9

STATION WALLOPS IS LAUNCH DATE 22681 LAUNCH TIME 1910 GMT ECC SONDE 3A1519X

77.0	27394	111.9	0.24088	293.3	10.85	17.1	1.2330	220.3	704.4	220.28	12.1	265.7	0.9	12.1
78.0	27664	112.1	0.24457	292.9	11.33	16.4	1.2148	221.1	715.4	221.05	11.5	260.5	1.9	11.3
79.0	27906	108.1	0.24781	279.4	11.33	15.8	1.1987	223.3	730.5	223.32	12.4	269.1	0.2	12.4
80.0	28245	107.1	0.25222	276.9	11.83	15.0	1.1761	223.3	741.4	223.32	16.5	271.0	-0.3	16.5
81.0	28651	102.6	0.25734	263.5	12.06	14.1	1.1492	224.8	759.6	224.79	16.4	267.6	0.7	16.4
82.0	28936	97.6	0.26078	251.9	11.98	13.5	1.1303	223.6	765.0	223.61	14.8	268.6	0.4	14.8
83.0	29285	87.8	0.26467	225.9	11.36	12.8	1.1072	224.4	779.3	224.35	17.1	273.4	-1.0	17.1
83.4	29441	85.7	0.26626	219.9	11.35	12.5	1.0969	224.9	786.7	224.94	16.3	272.4	-0.7	16.2
84.0	29710	82.1	0.26899	209.7	11.33	12.0	1.0792	226.0	799.5	225.95	14.8	270.2	-0.1	14.8
85.0	29934	79.4	0.27115	202.4	11.35	11.6	1.0645	226.7	809.9	226.67	13.5	266.8	0.7	13.5
86.0	30286	83.6	0.27457	212.5	12.59	11.0	1.0414	227.1	823.8	227.10	15.8	274.1	-1.1	15.8
87.0	30659	80.4	0.27820	204.1	12.81	10.4	1.0170	227.4	838.1	227.38	16.5	268.0	0.6	16.4
87.8	30920	77.8	0.28064	197.3	12.89	10.0	1.0000	227.6	848.5	227.61	16.2	273.6	-1.0	16.2
88.0	30987	77.1	0.28126	195.6	12.91	9.9	0.9956	227.7	851.1	227.67	16.1	275.1	-1.4	16.1
89.0	31332	7[illegible].1	0.28437	190.4	13.24	9.4	0.9731	227.7	863.8	227.67	18.4	282.8	-4.1	17.9
90.0	31697	72.9	0.28756	184.2	13.56	8.9	0.9494	228.4	880.1	228.37	19.6	277.3	-2.5	19.5
91.0	31926	70.0	0.28949	176.4	13.49	8.6	0.9345	229.1	891.5	229.08	18.1	280.1	-3.2	17.8
92.0	32164	67.1	0.29141	169.0	13.39	8.3	0.9191	229.1	900.6	229.08	22.5	282.6	-4.9	22.0
93.0	32411	64.7	0.29333	162.6	13.39	8.0	0.9031	229.6	912.3	229.63	27.6	288.2	-8.6	26.2
94.0	32756	61.8	0.29589	155.2	13.47	7.6	0.8808	229.8	926.4	229.77	24.9	293.8	-10.0	22.8
95.0	33028	59.6	0.29782	148.5	13.54	7.3	0.8633	231.8	945.5	231.84	9.9	120.0	5.0	-8.6
96.0	33312	57.7	0.29976	143.8	13.66	7.0	0.8451	231.6	955.8	231.57	25.3	296.4	-11.2	22.6
97.0	33609	55.8	0.30172	139.0	13.80	6.7	0.8261	231.8	969.0	231.84	57.6	295.8	-25.1	51.9
98.0	34028	53.8	0.30438	133.1	14.14	6.3	0.7993	233.2	992.0	233.20	24.3	284.6	-6.1	23.5
99.0	34363	51.8	0.30641	126.6	14.32	6.0	0.7782	236.4	1019.8	236.43	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



WALLOPS IS ECC

STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 1731 GMT ECC SONDE 3A1552X

SURFACE CONDITIONS					
PRESS	1021.2 MB	OO3 = 26.0	TBOX CAL =	30.0 C	AT 73.9 ORD
TEMP	281.2 K	OIZ = 25.0	BASE CAL =	30.0 C	AT 73.4 ORD
HUMY	53.0 %	OZC = 53.0	HUMIDITY =	60.3 %	AT 46.0 ORD
		IO = 0.182			
		PS = 27.8			

INTEGRATED OZONE	PROFILE 0.25647	DOBSON	
RESIDUAL OZONE	0.11638		
TOTAL OZONE	0.37285	0.34000	

ADDITIONAL DOBSON INFORMATION

Dobson	0.338
Observational Type	0
Wavelength	0
Air Mass	1.438
GMT	1700

ADDITIONAL DOBSON INFORMATION

Dobson	0.340
Observational Type	0
Wavelength	0
Air Mass	1.466
GMT	1800

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	44.5	0.	91.3	0.07	1021.2	3.0091	281.3	279.6	281.97	57.8	273.5	0.0038	6.0	350.0	-5.9	1.0
0.6	175	44.9	0.00074	92.9	0.07	1000.0	3.0000	279.1	279.0	279.62	56.9	271.2	0.0031	5.5	347.7	-5.4	1.2
1.0	283	45.1	0.00120	93.8	0.08	987.0	2.9943	277.6	278.7	278.15	56.3	269.7	0.0030	5.3	346.0	-5.1	1.3
2.0	567	44.6	0.00244	93.5	0.08	953.0	2.9791	275.3	279.1	275.77	60.0	268.4	0.0028	5.1	336.0	-4.6	2.1
3.0	832	44.0	0.00360	93.4	0.08	922.0	2.9647	272.2	278.6	272.67	68.9	267.3	0.0027	7.5	340.2	-7.1	2.6
3.7	1024	42.4	0.00442	89.9	0.08	900.0	2.9542	272.7	281.0	273.09	62.6	266.4	0.0025	11.7	350.0	-11.5	2.0
4.0	1114	41.7	0.00480	88.2	0.08	890.0	2.9494	272.9	282.1	273.28	59.7	266.0	0.0025	13.6	352.5	-13.5	1.8
5.0	1398	48.5	0.00606	101.8	0.09	859.0	2.9340	275.3	287.5	275.38				18.0	0.1	-18.0	-0.0
5.3	1482	49.4	0.00647	103.6	0.10	850.0	2.9294	275.5	288.6	275.53				18.1	1.3	-18.1	-0.4
6.0	1646	51.2	0.00727	107.1	0.10	833.0	2.9206	275.8	290.6	275.80				18.3	3.5	-18.2	-1.1
7.0	1862	57.2	0.00841	119.7	0.12	811.0	2.9090	275.6	292.6	275.63				18.5	3.2	-18.4	-1.0
7.4	1972	56.7	0.00902	118.6	0.12	800.0	2.9031	276.0	294.2	276.04				18.6	2.1	-18.6	-0.7
8.0	2135	56.0	0.00992	116.8	0.12	784.0	2.8943	276.6	296.6	276.64				18.9	0.6	-18.9	-0.2
9.0	2439	47.0	0.01145	99.0	0.10	755.0	2.8779	274.3	297.3	274.34				18.4	1.9	-18.4	-0.6
10.0	2708	45.8	0.01269	97.0	0.10	730.0	2.8633	272.7	298.4	272.75				19.0	2.2	-19.0	-0.7
11.0	2974	42.2	0.01385	90.0	0.10	706.0	2.8488	271.1	299.5	271.19				20.4	359.7	-20.4	0.1
11.3	3041	42.7	0.01414	91.2	0.10	700.0	2.8451	270.5	299.6	270.59				20.0	359.5	-20.0	0.2
12.0	3235	44.1	0.01498	94.6	0.11	683.0	2.8344	268.8	299.7	268.87				18.7	358.6	-18.7	0.4
13.0	3503	40.5	0.01612	87.6	0.10	660.0	2.8195	266.7	300.3	266.76				18.1	355.8	-18.0	1.3
14.0	3754	40.5	0.01715	88.3	0.10	639.0	2.8055	264.6	300.8	264.68				26.7	351.9	-26.5	3.8
15.0	4036	40.5	0.01832	89.1	0.11	616.0	2.7896	262.2	301.1	262.22				27.4	349.2	-26.9	5.1

STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 1731 GMT ECC SONDE 3A1552X

15.9	4237	37.3	0.01913	82.5	0.10	600.0	2.7782	261.2	302.2	261.21				23.2	349.9	-22.9	4.1
16.0	4263	36.9	0.01923	81.7	0.10	598.0	2.7767	261.0	302.3	261.08				22.7	350.0	-22.4	3.9
17.0	4495	35.1	0.02010	78.2	0.10	580.0	2.7634	259.4	303.0	259.39				24.2	353.4	-24.1	2.8
18.0	4760	34.5	0.02106	77.3	0.10	560.0	2.7482	257.8	304.3	257.86				23.8	352.0	-23.6	3.3
19.0	5019	34.5	0.02200	77.8	0.11	541.0	2.7332	256.0	305.2	256.07				25.6	351.4	-25.3	3.8
20.0	5300	31.1	0.02298	70.8	0.10	521.0	2.7168	253.9	305.8	253.89				25.9	351.2	-25.6	4.0
21.0	5604	31.1	0.02399	71.4	0.10	500.0	2.6990	251.4	306.5	251.47				26.6	349.7	-26.1	4.8
22.0	5872	28.0	0.02484	65.0	0.10	482.0	2.6830	248.9	306.6	248.94				27.7	346.5	-26.9	6.4
23.0	6132	28.5	0.02564	66.6	0.10	465.0	2.6675	246.9	307.3	246.95	21.1	231.3	0.0002	23.8	343.7	-22.9	6.7
24.0	6366	28.5	0.02638	67.2	0.10	450.0	2.6532	244.7	307.4	244.70				22.5	343.4	-21.5	6.4
25.0	6626	28.4	0.02719	67.4	0.11	434.0	2.6375	243.2	308.7	243.25				27.4	342.0	-26.1	8.5
26.0	6909	26.5	0.02806	63.4	0.11	417.0	2.6201	241.2	309.7	241.26	22.2	226.8	0.0001	28.6	339.7	-26.8	9.9
27.0	7184	23.4	0.02883	56.4	0.10	401.0	2.6031	239.3	310.6	239.27	24.2	225.9	0.0001	32.0	339.2	-29.9	11.4
27.1	7201	23.3	0.02887	56.3	0.10	400.0	2.6021	239.1	310.7	239.13	24.2	225.7	0.0001	31.9	339.2	-29.9	11.3
28.0	7485	22.1	0.02960	54.0	0.10	384.0	2.5843	236.7	311.2	236.73	24.6	223.8	0.0001	31.2	340.3	-29.4	10.5
29.0	7741	21.5	0.03024	52.8	0.10	370.0	2.5682	235.0	312.2	234.98	26.4	222.9	0.0001	24.0	342.0	-22.8	7.4
30.0	7947	22.2	0.03076	55.2	0.10	359.0	2.5551	232.2	311.2	232.23				23.1	337.8	-21.3	8.7
30.7	8118	21.7	0.03120	54.2	0.10	350.0	2.5441	230.8	311.5	230.78				25.2	336.7	-23.2	10.0
31.0	8177	21.5	0.03135	53.8	0.10	347.0	2.5403	230.3	311.6	230.29				26.0	336.4	-23.8	10.4
32.0	8433	21.5	0.03200	54.4	0.11	334.0	2.5237	228.3	312.3	228.32				30.7	343.3	-29.4	8.8
33.0	8677	20.8	0.03261	52.7	0.11	322.0	2.5079	227.9	315.0	227.89				31.2	339.3	-29.2	11.0
34.0	8929	20.8	0.03323	53.3	0.11	310.0	2.4914	225.6	315.2	225.57				32.7	334.9	-29.6	13.9
34.8	9144	20.8	0.03377	53.6	0.11	300.0	2.4771	224.2	316.3	224.22				35.2	335.2	-31.9	14.7
35.0	9188	20.8	0.03388	53.7	0.12	298.0	2.4742	223.9	316.5	223.94				35.7	335.3	-32.4	14.9
36.0	9433	18.9	0.03447	49.3	0.11	287.0	2.4579	222.0	317.1	221.98				33.3	331.8	-29.4	15.7
37.0	9756	22.7	0.03529	59.5	0.14	273.0	2.4362	220.0	318.7	219.96				28.4	330.9	-24.9	13.8
38.0	10019	23.7	0.03604	62.8	0.15	262.0	2.4183	218.4	320.2	218.36				26.6	332.1	-23.5	12.4
39.0	10292	32.3	0.03699	85.9	0.21	251.0	2.3997	216.9	321.9	216.88				26.7	330.9	-23.4	13.0
39.1	10317	32.4	0.03709	86.2	0.21	250.0	2.3979	216.8	322.2	216.80				26.7	331.0	-23.4	12.9
40.0	10602	33.3	0.03826	89.1	0.23	239.0	2.3784	215.9	324.9	215.88				26.4	332.1	-23.3	12.3
41.0	10900	44.4	0.03970	118.2	0.32	228.0	2.3579	216.9	330.9	216.88				25.3	322.3	-20.0	15.5
42.0	11157	61.5	0.04139	162.1	0.47	219.0	2.3404	219.0	338.0	219.00				28.4	305.0	-16.3	23.3
43.0	11426	78.7	0.04371	206.5	0.62	210.0	2.3222	220.1	343.8	220.11				26.9	307.3	-16.3	21.4
44.0	11676	89.2	0.04628	233.0	0.73	202.0	2.3054	220.9	348.9	220.90				23.6	318.0	-17.5	15.8
44.2	11740	88.1	0.04696	230.0	0.73	200.0	2.3010	221.1	350.2	221.12				[illegible]	324.7	-21.7	15.4
45.0	11937	84.7	0.04905	220.6	0.72	194.0	2.2878	221.8	354.4	221.82				[illegible]	337.8	-34.5	14.1
46.0	12210	89.5	0.05195	232.8	0.80	186.0	2.2695	222.0	358.9	221.98				50.2	332.3	-44.4	23.3
47.0	12532	89.0	0.05544	231.1	0.83	177.0	2.2480	222.4	364.8	222.44				40.7	320.9	-31.6	25.6
48.0	12872	95.6	0.05924	247.3	0.94	168.0	2.2253	223.0	371.3	223.04				31.5	325.6	-26.0	17.8
49.0	13230	86.7	0.06320	225.6	0.90	159.0	2.2014	222.0	375.4	221.98				31.8	325.7	-26.3	17.9

STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 1731 GMT ECC SONDE 3A1552X

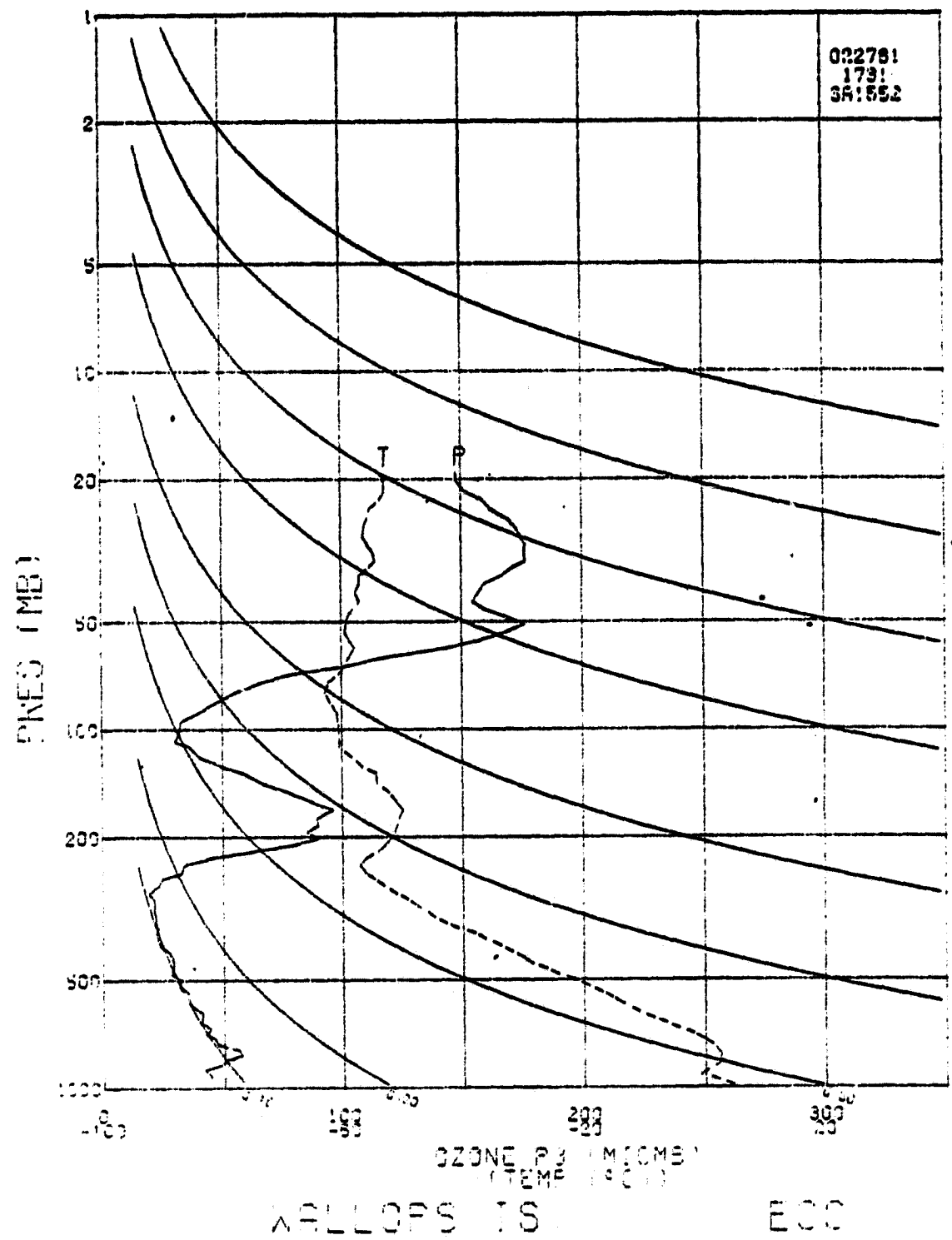
50.0	13607	77.6	0.06698	202.7	0.86	150.0	2.1761	220.9	379.8	220.90	34.0	319.3	-25.8	22.2
51.0	14005	65.8	0.07048	173.6	0.77	141.0	2.1492	218.8	383.0	218.84	26.8	297.6	-12.4	23.7
52.0	14427	58.2	0.07371	153.7	0.73	132.0	2.1206	218.7	390.0	218.68	18.8	273.3	-1.1	18.8
53.0	14673	49.8	0.07535	132.8	0.65	127.0	2.1038	216.4	390.2	216.38	19.3	291.8	-7.2	17.9
53.2	14773	47.4	0.07591	126.6	0.63	125.0	2.0969	216.0	391.2	215.97	20.0	293.6	-8.0	18.4
54.0	15083	39.9	0.07765	107.2	0.56	119.0	2.0755	214.7	394.4	214.68	22.5	298.1	-10.6	19.8
55.0	15462	35.7	0.07946	97.0	0.53	112.0	2.0492	212.6	397.3	212.57	15.4	267.8	0.6	15.4
56.0	15688	29.7	0.08040	80.8	0.46	108.0	2.0334	212.2	400.8	212.21	13.9	274.3	-1.0	13.9
57.0	16043	31.3	0.08178	85.1	0.51	102.0	2.0086	212.6	408.1	212.57	17.1	263.7	1.9	17.0
57.3	16166	31.6	0.08227	85.7	0.52	100.0	2.0000	212.5	410.3	212.52	17.5	264.1	1.8	17.4
58.0	16485	32.1	0.08356	87.3	0.56	95.0	1.9777	212.4	416.1	212.39	18.5	264.9	1.7	18.4
59.0	16862	39.8	0.08528	108.4	0.74	89.4	1.9513	212.2	423.0	212.21	19.9	298.8	-9.6	17.4
60.0	17233	47.0	0.08733	128.5	0.92	84.2	1.9253	211.1	428.1	211.11	9.6	253.4	2.7	9.2
60.8	17548	53.3	0.08938	146.4	1.11	80.0	1.9031	210.3	432.8	210.33	12.7	283.5	-3.0	12.4
61.0	17610	54.6	0.08979	149.9	1.14	79.2	1.8987	210.2	433.7	210.18	13.6	287.5	-4.1	13.0
62.0	18011	65.6	0.09288	179.8	1.47	74.2	1.8704	210.7	443.1	210.74	16.8	309.8	-10.7	12.9
63.0	18363	77.8	0.09610	211.3	1.84	70.1	1.8457	212.6	454.3	212.57	5.9	261.1	0.9	5.8
63.0	18371	78.4	0.09620	213.0	1.86	70.0	1.8451	212.6	454.4	212.57	6.0	262.5	0.8	5.9
64.0	18681	101.0	0.09971	274.4	2.51	66.6	1.8235	212.6	461.0	212.57	9.0	296.2	-4.0	8.1
65.0	19038	117.5	0.10464	316.5	3.09	62.9	1.7987	214.3	472.4	214.34	3.7	248.4	1.4	3.5
65.8	19334	137.5	0.10949	369.3	3.81	60.0	1.7782	215.0	480.4	215.01	6.1	261.1	1.0	6.1
66.0	19419	143.2	0.11087	384.3	4.01	59.2	1.7723	215.2	482.6	215.20	6.9	263.0	0.8	6.8
67.0	19723	156.7	0.11661	422.1	4.60	56.4	1.7513	214.3	487.4	214.34	16.4	311.6	-10.9	12.3
68.0	20042	168.2	0.12313	454.7	5.20	53.6	1.7292	213.6	492.9	213.64	8.3	305.0	-4.8	6.8
69.0	20377	176.0	0.13042	475.3	5.74	50.8	1.7059	213.8	500.9	213.81	10.6	314.2	-7.4	7.6
69.3	20476	173.5	0.13257	468.2	5.75	50.0	1.6990	213.9	503.5	213.92	12.3	313.7	-8.5	8.9
70.0	20706	167.5	0.13754	451.7	5.76	48.2	1.6830	214.2	509.4	214.16	16.2	313.1	-11.1	11.9
71.0	20985	158.9	0.14328	427.7	5.71	46.1	1.6637	214.5	516.7	214.51	6.3	276.5	-0.7	6.2
72.0	21293	154.2	0.14932	412.1	5.82	43.9	1.6425	216.0	527.7	216.05	9.3	318.7	-7.0	6.1
73.0	21663	156.8	0.15652	420.3	6.27	41.4	1.6170	215.4	535.0	215.37	13.7	328.8	-11.7	7.1
73.6	21879	158.3	0.16080	423.6	6.56	40.0	1.6021	215.8	541.3	215.80	1.9	207.5	1.7	0.9
74.0	22007	159.3	0.16332	425.6	6.73	39.2	1.5933	216.0	545.1	216.05	10.0	164.1	9.6	-2.7
75.0	22355	166.9	0.17041	446.0	7.45	37.1	1.5694	216.0	553.7	216.05	5.6	212.1	4.7	3.0
76.0	22670	171.2	0.17704	454.0	8.04	35.3	1.5478	217.7	566.0	217.71	11.6	307.1	-7.0	9.3
76.2	22724	172.3	0.17821	456.5	8.16	35.0	1.5441	217.9	567.9	217.91	11.1	309.5	-7.1	8.6
77.0	22928	176.4	0.18259	465.8	8.62	33.9	1.5302	218.7	575.1	218.68	9.4	320.6	-7.2	5.9
78.0	23297	176.2	0.19062	465.9	9.12	32.0	1.5051	218.4	583.8	218.36	10.2	326.2	-8.5	5.7
79.0	23624	176.4	0.19775	468.4	9.61	30.4	1.4829	217.4	589.8	217.38	4.5	260.5	0.7	4.5
79.3	23708	175.9	0.19959	467.6	9.72	30.0	1.4771	217.2	591.5	217.21	4.4	263.3	0.5	4.4
80.0	23945	174.7	0.20476	465.3	10.01	28.9	1.4609	216.7	596.5	216.72	4.1	271.9	-0.1	4.1

STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 1731 GMT ECC SONDE 3A1552X

81.0	24329	172.2	0.21306	458.5	10.49	27.2	1.4346	216.9	607.4	216.88	3.5	238.3	1.8	2.9
82.0	24640	169.2	0.21965	449.7	10.82	25.9	1.4133	217.2	616.9	217.21	8.7	305.7	-5.1	7.1
82.5	24865	165.4	0.22427	438.9	10.96	25.0	1.3979	217.6	624.2	217.56	10.0	315.3	-7.1	7.0
83.0	25072	161.9	0.22852	429.0	11.08	24.2	1.3838	217.9	630.9	217.87	11.4	322.1	-9.0	7.0
84.0	25453	158.4	0.23605	416.7	11.51	22.8	1.3579	219.5	646.5	219.48	7.0	177.9	7.0	-0.3
85.0	25801	151.1	0.24265	396.0	11.59	21.6	1.3345	220.3	658.9	220.27	7.2	275.7	-0.7	7.1
86.0	26201	148.0	0.24998	388.0	12.08	20.3	1.3075	220.3	670.7	220.27	19.4	298.4	-9.2	17.1
86.3	26296	147.9	0.25171	387.9	12.25	20.0	1.3010	220.1	672.9	220.06	999.9	999.9	999.9	999.9
87.0	26559	147.4	0.25647	387.7	12.72	19.2	1.2833	219.5	679.0	219.48	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 2200 GMT ECC SONDE 3A1554X

SURFACE CONDITIONS					
PRESS	1020.6 MB	OO3 = 27.9	TBOX CAL =	30.0 C	AT 74.3 ORD
TEMP	278.7 K	OIZ = 27.1	BASE CAL =	30.0 C	AT 74.3 ORD
HUMY	69.0 %	OZC = 56.1	HUMIDITY =	62.0 %	AT 46.0 ORD
		IO = 0.141			
		PS = 28.5			

	PROFILE	DOBSON
INTEGRATED OZONE	0.24108	
RESIDUAL OZONE		
TOTAL OZONE		0.34000

ADDITIONAL DOBSON INFORMATION

Dobson	0.340
Observation Type:	0
Wavelength:	0
Air Mass:	1.466
GMT:	1800

ADDITIONAL DOBSON INFORMATION

Dobson	0.341
Observational Type	0
Wavelength	0
Air Mass	1.620
GMT	1900

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	4	35.9	0.	74.4	0.06	1020.6	3.0089	278.7	277.1	279.38	70.5	273.8	0.0039	3.0	130.0	1.9	-2.3
0.6	170	35.9	0.00058	74.3	0.06	1000.0	3.0000	279.4	279.4	280.03	61.8	272.5	0.0035	999.9	999.9	999.9	999.9
1.0	261	35.9	0.00089	74.2	0.06	989.0	2.9952	279.8	280.7	280.38	57.0	271.9	0.0035	999.9	999.9	999.9	999.9
2.0	479	34.9	0.00164	72.2	0.06	963.0	2.9836	279.2	282.3	279.72	45.9	268.5	0.0028	999.9	999.9	999.9	999.9
3.0	676	34.5	0.00230	71.7	0.06	940.0	2.9731	277.7	282.6	278.08	43.7	266.4	0.0024	999.9	999.9	999.9	999.9
4.0	903	35.9	0.00308	75.0	0.07	914.0	2.9609	276.1	283.3	276.44	35.0	262.2	0.0018	999.9	999.9	999.9	999.9
4.6	1028	38.4	0.00354	79.9	0.07	900.0	2.9542	277.6	286.1	277.76				999.9	999.9	999.9	999.9
5.0	1119	40.3	0.00388	83.4	0.07	890.0	2.9494	278.7	288.2	278.72				999.9	999.9	999.9	999.9
6.0	1351	39.9	0.00478	82.6	0.08	865.0	2.9370	278.5	290.3	278.54				999.9	999.9	999.9	999.9
6.6	1493	40.6	0.00534	84.2	0.08	850.0	2.9294	278.3	291.6	278.33				999.9	999.9	999.9	999.9
7.0	1590	41.1	0.00571	85.2	0.08	840.0	2.9243	278.2	292.4	278.19				999.9	999.9	999.9	999.9
8.0	1825	39.2	0.00663	81.5	0.08	816.0	2.9117	277.7	294.3	277.67				14.9	354.4	-14.9	1.5
8.6	1985	40.0	0.00725	83.2	0.08	800.0	2.9031	277.1	295.4	277.12				15.3	350.8	-15.1	2.5
9.0	2077	40.4	0.00761	84.3	0.08	791.0	2.8982	276.8	296.0	276.81				15.5	348.8	-15.2	3.0
10.0	2326	37.4	0.00855	78.5	0.08	767.0	2.8848	275.0	296.6	275.04				16.5	345.3	-16.0	4.2
11.0	2592	36.0	0.00951	75.9	0.08	742.0	2.8704	274.0	298.3	274.03				15.7	345.6	-15.2	3.9
12.0	2865	35.5	0.01048	75.6	0.08	717.0	2.8555	271.5	298.6	271.60				15.5	344.6	-14.9	4.1
12.7	3054	36.3	0.01116	77.6	0.09	700.0	2.8451	270.3	299.3	270.32				14.6	342.5	-13.9	4.4
13.0	3146	36.7	0.01149	78.6	0.09	692.0	2.8401	269.7	299.6	269.71				14.1	341.4	-13.4	4.5
14.0	3388	36.1	0.01238	78.0	0.09	671.0	2.8267	267.2	299.5	267.25				12.7	336.1	-11.6	5.2
15.0	3635	34.9	0.01327	75.9	0.09	650.0	2.8129	265.1	299.8	265.13				14.0	332.5	-12.4	6.5

STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 2200 GMT ECC SONDE 3A1554X

16.0	3901	34.9	0.01421	76.5	0.09	628.0	2.7980	263.1	300.5	263.08				16.8	333.7	-15.1	7.4
17.0	4174	34.2	0.01519	75.6	0.09	606.0	2.7825	261.2	301.4	261.21				18.7	330.7	-16.3	9.1
17.3	4249	33.7	0.01545	74.5	0.09	600.0	2.7782	260.8	301.8	260.87				18.8	328.6	-16.0	9.8
18.0	4456	32.2	0.01616	71.6	0.09	584.0	2.7664	259.9	303.1	259.94				19.1	323.0	-15.2	11.5
19.0	4747	29.1	0.01708	65.1	0.09	562.0	2.7497	258.1	304.3	258.12				21.3	324.0	-17.2	12.5
20.0	5047	28.5	0.01799	64.2	0.09	540.0	2.7324	256.3	305.6	256.33				21.7	325.6	-17.9	12.3
21.0	5329	28.5	0.01884	64.7	0.09	520.0	2.7160	254.1	306.3	254.15				21.5	325.7	-17.7	12.1
22.0	5619	28.4	0.01972	64.9	0.09	500.0	2.6990	252.4	307.7	252.41				22.0	327.3	-18.5	11.9
23.0	5903	27.6	0.02058	63.8	0.10	481.0	2.6821	249.7	307.8	249.77	22.3	234.2	0.0003	21.7	326.9	-18.2	11.8
24.0	6196	25.7	0.02142	60.1	0.09	462.0	2.6646	247.0	307.9	247.00	24.5	232.7	0.0002	25.2	325.7	-20.8	14.2
25.0	6498	23.7	0.02224	56.0	0.09	443.0	2.6464	244.6	308.7	244.64	28.7	232.1	0.0002	29.5	324.2	-23.9	17.2
26.0	6793	23.1	0.02301	55.1	0.09	425.0	2.6284	242.0	309.0	242.03	38.4	232.5	0.0003	27.6	326.1	-23.8	15.4
27.0	7098	21.8	0.02378	52.5	0.09	407.0	2.6096	239.2	309.3	239.28	49.6	232.4	0.0003	25.3	330.6	-22.1	12.4
27.4	7219	22.5	0.02409	54.5	0.09	400.0	2.6021	238.8	310.3	238.86	50.7	232.2	0.0003	26.7	331.9	-23.5	12.6
28.0	7396	23.6	0.02454	57.3	0.10	390.0	2.5911	238.2	311.7	238.23	52.2	231.9	0.0003	28.7	333.6	-25.7	12.8
29.0	7668	23.5	0.02527	57.3	0.10	375.0	2.5740	236.7	313.3	236.77	28.7	225.1	0.0001	30.5	334.8	-27.6	13.0
30.0	7930	21.6	0.02595	53.3	0.10	361.0	2.5575	234.2	313.4	234.24	30.0	223.3	0.0001	30.2	333.8	-27.1	13.3
30.7	8140	20.7	0.02646	51.4	0.10	350.0	2.5441	232.5	313.8	232.47				32.8	333.3	-29.3	14.7
31.0	8219	20.4	0.02665	50.7	0.10	346.0	2.5391	231.8	313.9	231.81				33.8	333.2	-30.2	15.3
32.0	8518	18.4	0.02733	46.2	0.09	331.0	2.5198	229.4	314.6	229.36				37.9	332.5	-33.6	17.5
33.0	8806	18.4	0.02795	46.7	0.10	317.0	2.5011	226.7	314.8	226.71				42.8	332.1	-37.9	20.0
34.0	9125	16.4	0.02862	42.4	0.09	302.0	2.4800	224.0	315.4	223.99				39.7	331.6	-35.0	18.9
34.1	9168	16.3	0.02870	42.2	0.09	300.0	2.4771	223.6	315.4	223.60				39.6	331.2	-34.7	19.1
35.0	9434	15.8	0.02922	41.2	0.09	288.0	2.4594	221.2	315.7	221.18				38.4	328.5	-32.8	20.1
36.0	9754	13.7	0.02980	36.3	0.08	274.0	2.4378	218.3	316.0	218.26				45.6	328.6	-38.9	23.7
37.0	10087	19.4	0.03049	51.9	0.12	260.0	2.4150	215.9	317.2	215.86				41.4	331.6	-36.4	19.7
37.8	10333	15.0	0.03100	40.3	0.10	250.0	2.3979	215.1	319.6	215.11				38.8	332.8	-34.5	17.7
38.0	10410	13.7	0.03116	36.7	0.09	247.0	2.3927	214.9	320.4	214.87				38.0	333.2	-33.5	17.1
39.0	10696	33.5	0.03201	90.4	0.24	236.0	2.3729	214.0	323.3	214.04				33.5	322.3	-26.5	20.5
40.0	10996	68.8	0.03393	184.6	0.51	225.0	2.3522	215.4	329.8	215.37				28.5	306.7	-17.1	22.9
41.0	11313	67.4	0.03663	178.8	0.52	214.0	2.3304	217.6	338.1	217.63				28.0	311.7	-18.6	20.9
42.0	11648	60.8	0.03930	162.6	0.50	203.0	2.3075	215.9	340.4	215.86				33.6	323.1	-26.9	20.2
42.3	11742	74.1	0.04025	197.5	0.62	200.0	2.3010	216.4	342.7	216.39				33.1	324.0	-26.8	19.5
43.0	11935	101.2	0.04220	268.8	0.86	194.0	2.2878	217.5	347.4	217.47				32.2	325.7	-26.6	18.1
44.0	12203	103.1	0.04559	273.0	0.92	186.0	2.2695	217.9	352.4	217.95				23.8	327.4	-20.0	12.8
45.0	12484	91.5	0.04896	240.6	0.85	178.0	2.2504	219.5	359.4	219.51				23.5	327.5	-19.8	12.6
46.0	12779	80.6	0.05209	211.9	0.79	170.0	2.2304	219.5	364.2	219.51				27.6	312.6	-18.7	20.3
47.0	13128	70.2	0.05532	184.6	0.72	161.0	2.2068	219.5	369.9	219.51				31.9	306.5	-19.0	25.7
48.0	13497	60.4	0.05829	159.7	0.66	152.0	2.1818	218.6	374.4	218.58				29.6	314.3	-20.6	21.2
48.2	13581	59.3	0.05889	156.8	0.65	150.0	2.1761	218.3	375.3	218.27				27.6	312.4	-18.6	20.4

STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 2200 GMT ECC SONDE 3A1554X

49.0	13842	55.7	0.06076	148.0	0.64	144.0	2.1584	217.3	378.1	217.31	21.8	304.5	-12.3	18.0
50.0	14112	48.1	0.06251	128.2	0.58	138.0	2.1399	216.8	381.8	216.83	20.8	315.7	-14.9	14.5
51.0	14394	41.7	0.06408	110.9	0.52	132.0	2.1206	217.2	387.3	217.15	25.5	320.6	-19.7	16.2
52.0	14689	39.8	0.06558	106.0	0.52	126.0	2.1004	217.0	392.2	216.99	23.3	306.3	-13.8	18.8
52.2	14739	39.3	0.06582	104.6	0.52	125.0	2.0969	216.7	392.6	216.73	23.3	306.8	-13.9	18.7
53.0	14997	36.4	0.06705	97.5	0.50	120.0	2.0792	215.4	394.7	215.37	23.3	309.3	-14.7	18.0
54.0	15375	31.6	0.06866	85.2	0.46	113.0	2.0531	214.5	400.0	214.54	23.1	309.7	-14.8	17.8
55.0	15658	33.3	0.06982	90.2	0.51	108.0	2.0334	213.4	403.0	213.36	19.6	309.4	-12.4	15.1
56.0	16014	33.8	0.07133	91.6	0.55	102.0	2.0086	212.8	408.6	212.84	17.4	297.2	-8.0	15.5
56.4	16136	34.4	0.07187	93.5	0.57	100.0	2.0000	212.4	410.0	212.38	16.4	297.7	-7.6	14.5
57.0	16339	35.4	0.07276	96.5	0.61	96.8	1.9859	211.6	412.4	211.62	14.9	298.6	-7.1	13.1
58.0	16666	36.3	0.07426	99.8	0.66	91.8	1.9628	210.0	415.5	210.00	10.0	199.4	9.4	3.3
59.0	17010	40.2	0.07595	110.9	0.77	86.8	1.9385	209.5	421.1	209.45	8.1	237.3	4.4	6.8
60.0	17367	61.9	0.07829	169.5	1.25	81.9	1.9133	210.9	431.1	210.91	26.3	320.3	-20.2	16.8
60.4	17511	62.8	0.07946	172.3	1.30	80.0	1.9031	210.4	432.9	210.36	22.1	318.8	-16.6	14.6
61.0	17746	64.2	0.08136	176.9	1.38	77.0	1.8865	209.5	435.7	209.45	15.5	314.6	-10.9	11.0
62.0	18151	97.0	0.08554	264.9	2.23	72.1	1.8579	211.4	448.2	211.44	8.5	240.8	3.1	7.9
62.5	18334	121.4	0.08837	329.6	2.89	70.0	1.8451	212.5	454.3	212.50	10.5	277.5	-1.4	10.4
63.0	18515	145.4	0.09114	393.0	3.54	68.0	1.8325	213.5	460.3	213.53	14.1	293.9	-5.7	12.9
64.0	18864	165.2	0.09800	446.7	4.26	64.3	1.8082	213.5	467.7	213.53	15.0	305.1	-8.6	12.3
65.0	19204	183.4	0.10547	494.2	4.99	60.9	1.7846	214.2	476.5	214.21	14.1	287.3	-4.2	13.5
65.2	19296	183.0	0.10761	494.4	5.06	60.0	1.7782	213.7	477.4	213.70	15.1	293.3	-6.0	13.9
66.0	19584	181.9	0.11425	495.0	5.26	57.3	1.7582	212.1	480.2	212.15	19.0	307.0	-11.4	15.2
67.0	19975	179.0	0.12322	488.3	5.51	53.8	1.7309	211.6	487.7	211.62	5.1	306.1	-3.0	4.1
68.0	20380	166.7	0.13212	453.6	5.48	50.4	1.7024	212.1	498.2	212.15	3.6	288.7	-1.2	3.4
68.2	20429	164.1	0.13312	446.5	5.43	50.0	1.6990	212.1	499.3	212.15	5.3	302.2	-2.8	4.5
69.0	20709	149.4	0.13873	406.6	5.18	47.8	1.6794	212.1	505.8	212.15	16.2	319.4	-12.3	10.5
70.0	20988	134.4	0.14376	365.7	4.87	45.7	1.6599	212.1	512.3	212.15	8.9	325.8	-7.3	5.0
71.0	21280	132.1	0.14870	358.0	5.02	43.6	1.6395	213.0	521.3	213.02	0.4	144.2	0.3	-0.2
72.0	21619	157.7	0.15490	424.7	6.33	41.3	1.6160	214.4	532.9	214.37	5.0	242.2	2.3	4.4
72.6	21819	159.7	0.15892	430.3	6.62	40.0	1.6021	214.4	537.8	214.37	7.2	255.5	1.8	7.0
73.0	21946	161.1	0.16146	433.8	6.81	39.2	1.5933	214.4	540.9	214.37	8.7	260.2	1.5	8.6
74.0	22241	170.7	0.16761	457.2	7.56	37.4	1.5729	215.5	551.1	215.53	10.9	304.0	-6.4	8.8
75.0	22516	173.0	0.17354	464.0	8.01	35.8	1.5539	215.2	557.2	215.21	12.1	323.0	-9.7	7.3
75.5	22658	171.7	0.17660	461.1	8.13	35.0	1.5441	215.0	560.2	214.97	8.4	322.3	-6.7	5.1
76.0	22822	170.3	0.18013	457.8	8.27	34.1	1.5328	214.7	563.7	214.71	4.2	320.0	-3.2	2.7
77.0	23143	166.6	0.18693	448.1	8.52	32.4	1.5105	214.7	572.0	214.71	4.7	270.8	-0.1	4.7
78.0	23461	164.9	0.19355	443.3	8.87	30.8	1.4886	214.7	580.3	214.71	10.5	302.5	-5.6	8.9
78.5	23626	163.4	0.19694	438.7	9.03	30.0	1.4771	215.0	585.6	215.03	6.8	291.8	-2.5	6.3
79.0	23796	161.9	0.20043	434.0	9.19	29.2	1.4654	215.4	591.1	215.37	3.7	259.5	0.7	3.7

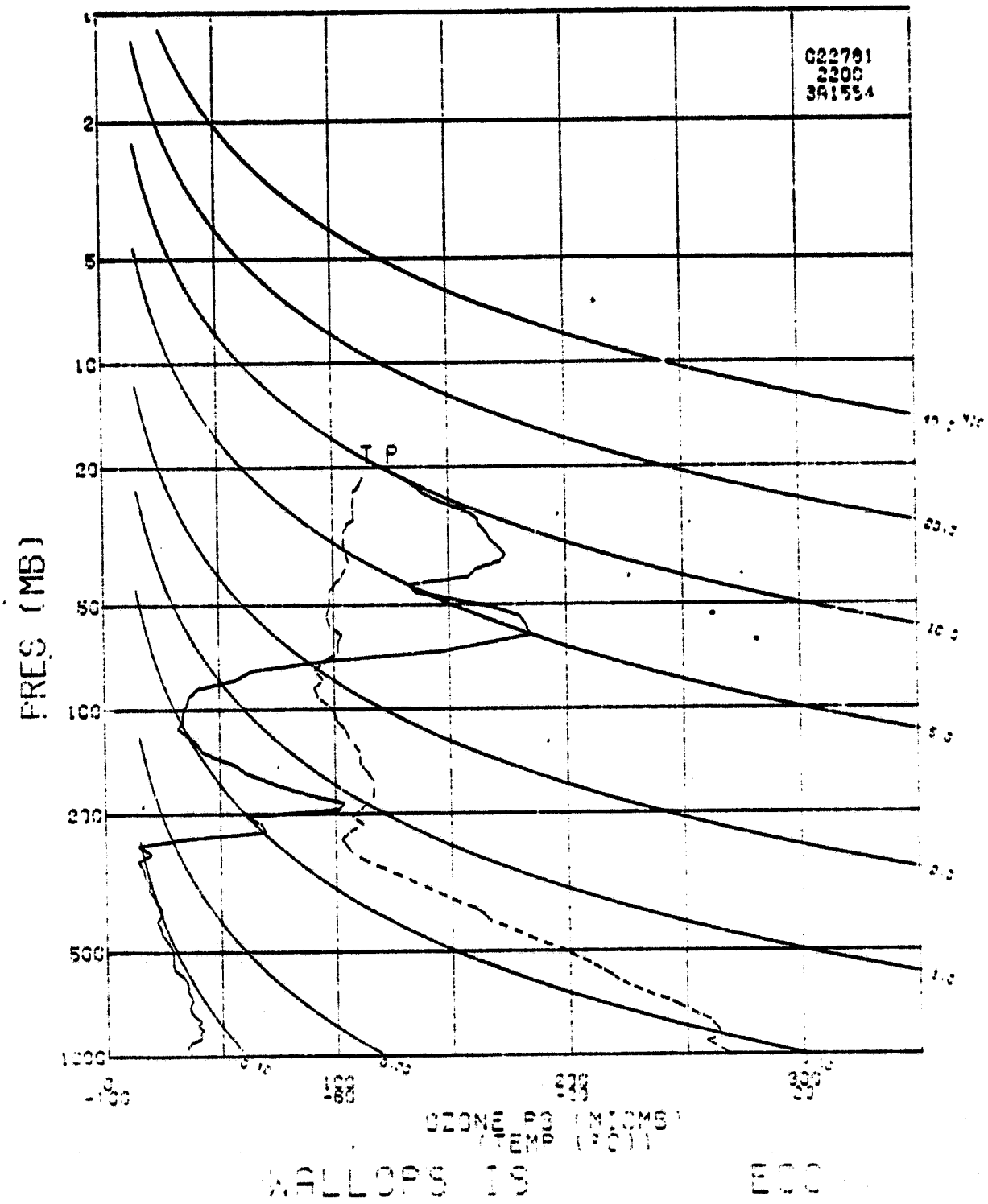
STATION WALLOPS IS LAUNCH DATE 22781 LAUNCH TIME 2200 GMT ECC SONDE 3A1554X

80.0	24016	161.4	0.20487	430.3	9.48	28.2	1.4502	216.5	600.2	216.51	5.3	222.5	3.9	3.6
81.0	24268	158.3	0.20989	421.8	9.68	27.1	1.4330	216.7	607.5	216.67	6.1	289.1	-2.0	5.7
82.0	24555	151.4	0.21542	404.1	9.69	25.9	1.4133	216.3	614.5	216.35	6.2	271.4	-0.2	6.2
82.7	24778	145.3	0.21953	387.7	9.63	25.0	1.3979	216.3	620.7	216.35	8.7	273.3	-0.5	8.7
83.0	24855	143.2	0.22094	382.1	9.61	24.7	1.3927	216.3	622.9	216.35	9.6	273.7	-0.6	9.5
84.0	25143	137.7	0.22599	367.2	9.67	23.6	1.3729	216.5	631.5	216.51	10.7	287.0	-3.1	10.2
85.0	25446	134.2	0.23111	356.2	9.88	22.5	1.3522	217.5	643.0	217.47	12.9	282.5	-2.8	12.6
86.0	25676	130.7	0.23489	347.2	9.98	21.7	1.3365	217.3	649.2	217.31	13.8	273.5	-0.8	13.7
87.0	25885	126.8	0.23822	335.4	10.00	21.0	1.3222	218.3	658.2	218.26	12.9	271.3	-0.3	12.9
88.0	26070	123.2	0.24108	326.2	10.01	20.4	1.3096	218.1	663.2	218.11	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

*** TOTAL INTEGRATED OZONE INVALID ***
*** BALLOON SHORT OF 20 MB HEIGHT ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION POKER FLAT LAUNCH DATE 10681 LAUNCH TIME 1910 GMT ECC SONDE 3A1488X

SURFACE CONDITIONS
PRESS 978.0 MB
TEMP 275.4 K
HUMY 52.0 %

003 = 29.6
OIZ = 29.2
OZC = 60.7
IO = 0.066
PS = 29.2

TBOX CAL = 30.0 C AT 74.3 ORD
BASE CAL = 30.0 C AT 74.1 ORD
HUMIDITY = 56.0 % AT 46.0 ORD

NO SONTRAN AVAILABLE

	PROFILE	DOBSON
INTEGRATED OZONE	0.05849	
RESIDUAL OZONE		
TOTAL OZONE		0.

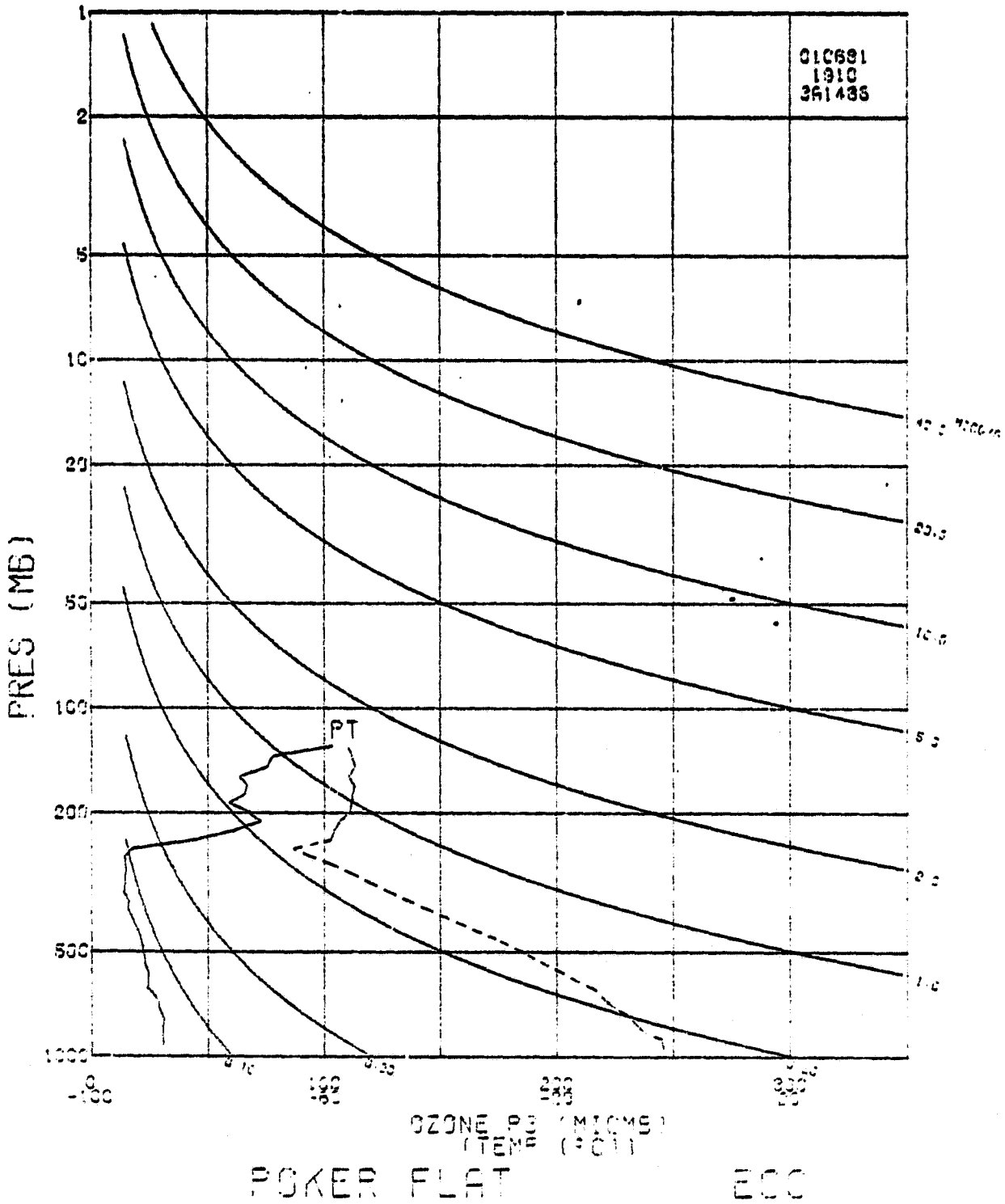
TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTLMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	196	29.5	0.	61.9	0.05	978.0	2.9903	275.2	277.0	275.65	53.4	266.8	0.0024	10.0	210.0	8.7	5.0
1.0	428	30.3	0.00069	64.6	0.05	950.0	2.9777	271.3	275.4	271.63	48.4	261.9	0.0017	999.9	999.9	999.9	999.9
2.0	665	30.3	0.00140	64.8	0.05	922.0	2.9647	270.2	276.6	270.52	50.7	261.5	0.0017	999.9	999.9	999.9	999.9
2.6	856	30.4	0.00198	64.8	0.06	900.0	2.9542	270.7	279.0	271.05	52.0	262.2	0.0019	999.9	999.9	999.9	999.9
3.0	963	30.4	0.00230	64.8	0.06	888.0	2.9484	271.0	280.4	271.35	52.6	262.7	0.0019	999.9	999.9	999.9	999.9
4.0	1281	30.4	0.00327	65.5	0.06	853.0	2.9309	268.4	280.9	268.71	61.9	262.2	0.0019	999.9	999.9	999.9	999.9
4.1	1308	30.5	0.00335	65.5	0.06	850.0	2.9294	268.3	281.0	268.59	62.2	262.2	0.0019	999.9	999.9	999.9	999.9
5.0	1619	30.6	0.00431	66.1	0.06	817.0	2.9[illegible]2	267.0	282.9	267.33	64.9	261.5	0.0019	999.9	999.9	999.9	999.9
5.5	1783	30.8	0.00482	66.7	0.06	800.0	2.9[illegible]31	266.8	284.4	267.13	69.9	262.2	0.0021	999.9	999.9	999.9	999.9
6.0	1941	31.1	0.00531	67.3	0.07	784.0	2.8943	266.6	285.8	266.93	74.7	262.8	0.0022	999.9	999.9	999.9	999.9
7.0	2255	29.9	0.00628	65.2	0.07	753.0	2.8768	264.9	287.3	265.37	98.6	264.8	0.0027	999.9	999.9	999.9	999.9
8.0	2548	28.8	0.00716	63.2	0.07	725.0	2.8603	262.9	288.2	263.27	98.1	262.6	0.0024	999.9	999.9	999.9	999.9
8.9	2817	28.6	0.00795	63.0	0.07	700.0	2.8451	261.8	289.9	262.19	97.3	261.5	0.0022	999.9	999.9	999.9	999.9
9.0	2840	28.6	0.00802	63.0	0.07	698.0	2.8439	261.7	290.1	262.10	97.3	261.4	0.0022	999.9	999.9	999.9	999.9
10.0	3176	26.9	0.00898	59.4	0.07	668.0	2.8248	261.0	292.9	261.39	99.1	260.9	0.0022	999.9	999.9	999.9	999.9
11.0	3526	24.0	0.00990	53.4	0.06	638.0	2.8048	259.3	294.9	259.66	97.5	259.0	0.0020	999.9	999.9	999.9	999.9
12.0	3890	24.0	0.01081	53.9	0.07	608.0	2.7839	256.7	295.9	256.98	98.7	256.5	0.0017	999.9	999.9	999.9	999.9
12.2	3988	24.0	0.01106	54.2	0.07	600.0	2.7782	256.1	296.4	256.37	98.3	255.9	0.0016	999.9	999.9	999.9	999.9
13.0	4320	24.2	0.01191	55.0	0.07	574.0	2.7589	254.1	297.8	254.34	97.0	253.8	0.0014	999.9	999.9	999.9	999.9
14.0	4650	23.0	0.01274	52.9	0.07	549.0	2.7396	251.6	298.6	251.76	97.5	251.3	0.0012	999.9	999.9	999.9	999.9
15.0	5020	22.5	0.01364	52.0	0.07	522.0	2.7177	249.3	300.2	249.47	97.7	249.0	0.0010	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 10681 LAUNCH TIME 1910 GMT ECC SONDE 3A1488X

16.0	5332	22.0	0.01439	51.3	0.07	500.0	2.6990	247.3	301.5	247.43	94.7	246.7	0.0009	999.9	999.9	999.9	999.9
16.0	5347	21.9	0.01443	51.2	0.07	499.0	2.6981	247.2	301.5	247.34	94.5	246.6	0.0009	999.9	999.9	999.9	999.9
17.0	5671	21.5	0.01520	50.7	0.07	477.0	2.6785	244.6	302.2	244.68	91.6	243.6	0.0007	999.9	999.9	999.9	999.9
18.0	5961	20.9	0.01588	49.7	0.08	458.0	2.6609	242.6	303.3	242.70	82.0	240.6	0.0005	999.9	999.9	999.9	999.9
19.0	6244	20.2	0.01653	48.7	0.08	440.0	2.6435	239.9	303.3	239.92	72.6	236.7	0.0004	999.9	999.9	999.9	999.9
20.0	6569	18.4	0.01724	44.9	0.07	420.0	2.6232	237.1	303.8	237.14	61.9	232.5	0.0003	999.9	999.9	999.9	999.9
21.0	6905	17.3	0.01793	42.6	0.07	400.0	2.6021	234.3	304.4	234.33	50.3	227.9	0.0002	999.9	999.9	999.9	999.9
22.0	7272	15.5	0.01863	38.8	0.07	379.0	2.5786	231.1	304.9	231.06				999.9	999.9	999.9	999.9
23.0	7636	15.7	0.01930	39.9	0.07	359.0	2.5551	227.9	305.4	227.88				999.9	999.9	999.9	999.9
23.4	7803	15.0	0.01959	38.2	0.07	350.0	2.5441	226.4	305.6	226.43				999.9	999.9	999.9	999.9
24.0	8015	14.0	0.01997	36.0	0.07	339.0	2.5302	224.6	305.9	224.60				999.9	999.9	999.9	999.9
25.0	8412	13.9	0.02064	36.4	0.07	319.0	2.5038	221.3	306.8	221.35				999.9	999.9	999.9	999.9
25.9	8806	14.4	0.02133	38.2	0.08	300.0	2.4771	218.1	307.7	218.11				999.9	999.9	999.9	999.9
26.0	8828	14.5	0.02137	38.3	0.08	299.0	2.4757	217.9	307.7	217.94				999.9	999.9	999.9	999.9
27.0	9220	14.4	0.02207	38.8	0.08	281.0	2.4487	214.2	307.8	214.17				999.9	999.9	999.9	999.9
28.0	9537	14.0	0.02265	38.4	0.09	267.0	2.4265	210.7	307.2	210.66				999.9	999.9	999.9	999.9
29.0	9867	17.4	0.02331	48.2	0.11	253.0	2.4031	207.9	307.8	207.85				999.9	999.9	999.9	999.9
29.2	9940	22.9	0.02360	62.7	0.15	250.0	2.3979	209.2	310.9	209.17				999.9	999.9	999.9	999.9
30.0	10218	43.6	0.02468	117.5	0.30	239.0	2.3784	214.2	322.4	214.17				999.9	999.9	999.9	999.9
31.0	10625	61.2	0.02736	164.5	0.45	224.0	2.3502	214.8	329.4	214.84				999.9	999.9	999.9	999.9
32.0	11002	72.4	0.03051	193.8	0.57	211.0	2.3243	215.8	336.7	215.84				999.9	999.9	999.9	999.9
32.8	11341	67.7	0.03345	179.9	0.56	200.0	2.3010	217.2	344.0	217.20				999.9	999.9	999.9	999.9
33.0	11405	66.8	0.03401	177.3	0.56	198.0	2.2967	217.5	345.4	217.46				999.9	999.9	999.9	999.9
34.0	11769	59.1	0.03684	156.6	0.52	187.0	2.2718	217.8	351.6	217.78				999.9	999.9	999.9	999.9
35.0	12119	65.5	0.03954	173.5	0.61	177.0	2.2480	217.9	357.4	217.94				999.9	999.9	999.9	999.9
36.0	12490	66.7	0.04258	176.5	0.66	167.0	2.2227	218.3	364.0	218.26				999.9	999.9	999.9	999.9
37.0	12883	63.6	0.04575	168.9	0.67	157.0	2.1959	217.3	368.8	217.30				999.9	999.9	999.9	999.9
37.7	13173	71.9	0.04826	190.4	0.80	150.0	2.1761	218.1	375.0	218.07				999.9	999.9	999.9	999.9
38.0	13302	75.6	0.04937	199.9	0.85	147.0	2.1673	218.4	377.7	218.41				999.9	999.9	999.9	999.9
39.0	13752	77.8	0.05363	206.4	0.94	137.0	2.1367	217.8	384.3	217.78				999.9	999.9	999.9	999.9
40.0	14184	103.4	0.05849	274.9	1.34	128.0	2.1072	217.1	390.7	217.14				999.9	999.9	999.9	999.9

*** TOTAL INTEGRATED OZONE INVALID ***
*** BALLOON SHORT OF 20 Mb HEIGHT ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION POKER FLAT LAUNCH DATE 1281 LAUNCH TIME 1910 GMT ECC SONDE 3A1491X

SURFACE CONDITIONS
PRESS 989.7 MB
TEMP 257.1 K
HUMY 48.0 %

003 = 29.9
OIZ = 29.3
OZC = 59.5
IO = 0.102
PS = 30.1

TBOX CAL = 30.0 C AT 74.5 ORD
BASE CAL = 30.0 C AT 73.3 ORD
HUMIDITY = 57.2 % AT 46.0 ORD

NO SENTRAN AVAILABLE

```
**************************************************
****                                          ****
****                    PROFILE   DOBSON      ****
****   INTEGRATED OZONE  0.09837              ****
****   RESIDUAL OZONE                         ****
****   TOTAL OZONE                 0.         ****
****                                          ****
**************************************************
```

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	196	29.7	0.	66.8	0.05	989.7	2.9955	257.1	257.8	257.14	51.9	249.5	0.0006	10.0	360.0	-10.0	-0.0
1.0	437	30.8	0.00075	66.9	0.05	959.0	2.9818	266.0	269.2	266.39	100.0	266.0	0.0023	999.9	999.9	999.9	999.9
2.0	643	33.6	0.00142	72.4	0.06	934.0	2.9703	268.3	273.5	268.68	91.0	267.0	0.0026	999.9	999.9	999.9	999.9
3.0	856	35.3	0.00216	75.6	0.06	909.0	2.9586	269.5	276.9	269.83	66.8	264.2	0.0021	999.9	999.9	999.9	999.9
3.3	934	35.6	0.00244	76.2	0.07	900.0	2.9542	269.9	278.1	270.25	65.7	264.4	0.0022	999.9	999.9	999.9	999.9
4.0	1094	36.3	0.00301	77.5	0.07	882.0	2.9455	270.7	280.6	271.10	63.7	264.8	0.0023	999.9	999.9	999.9	999.9
5.0	1303	36.9	0.00378	79.1	0.07	859.0	2.9340	269.5	281.4	269.87	69.3	264.7	0.0023	999.9	999.9	999.9	999.9
5.3	1385	36.9	0.00408	79.1	0.07	850.0	2.9294	269.1	281.9	269.47	75.2	265.3	0.0026	999.9	999.9	999.9	999.9
6.0	1545	36.8	0.00467	79.1	0.07	833.0	2.9206	268.3	282.6	268.71	86.4	266.3	0.0027	999.9	999.9	999.9	999.9
7.0	1774	37.0	0.00552	80.1	0.08	809.0	2.9079	266.8	283.4	267.17	85.8	264.8	0.0025	999.9	999.9	999.9	999.9
7.3	1860	36.8	0.00585	80.0	0.08	800.0	2.9031	266.0	283.5	266.35	88.4	264.3	0.0024	999.9	999.9	999.9	999.9
8.0	2028	36.5	0.00647	79.7	0.08	783.0	2.8938	264.4	283.5	264.78	93.4	263.5	0.0023	999.9	999.9	999.9	999.9
9.0	2268	35.9	0.00736	78.7	0.08	759.0	2.8802	263.2	284.8	263.51	70.6	258.9	0.0017	999.9	999.9	999.9	999.9
10.0	2505	32.9	0.00819	72.5	0.07	736.0	2.8669	262.4	286.4	262.58	54.8	255.1	0.0012	999.9	999.9	999.9	999.9
11.0	2759	32.8	0.00905	72.7	0.08	712.0	2.8525	260.5	287.1	260.71	54.7	253.3	0.0011	999.9	999.9	999.9	999.9
11.5	2887	32.5	0.00949	72.3	0.08	700.0	2.8451	259.2	287.0	259.39	58.6	252.8	0.0011	999.9	999.9	999.9	999.9
12.0	3019	32.1	0.00993	71.9	0.08	688.0	2.8376	257.9	287.0	258.05	62.5	252.4	0.0011	999.9	999.9	999.9	999.9
13.0	3297	31.4	0.01086	70.8	0.08	663.0	2.8215	255.8	287.7	255.96	62.4	250.4	0.0009	999.9	999.9	999.9	999.9
14.0	3549	30.2	0.01168	68.6	0.08	641.0	2.8069	254.3	288.8	254.44	54.2	247.4	0.0007	999.9	999.9	999.9	999.9
15.0	3784	30.6	0.01244	70.1	0.08	621.0	2.7931	251.8	288.5	251.87	64.1	246.8	0.0007	999.9	999.9	999.9	999.9
16.0	4012	29.9	0.01318	69.0	0.08	602.0	2.7796	249.8	288.7	249.86	66.6	245.3	0.0006	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 11281 LAUNCH TIME 1910 GMT ECC SONDE 3A1491X

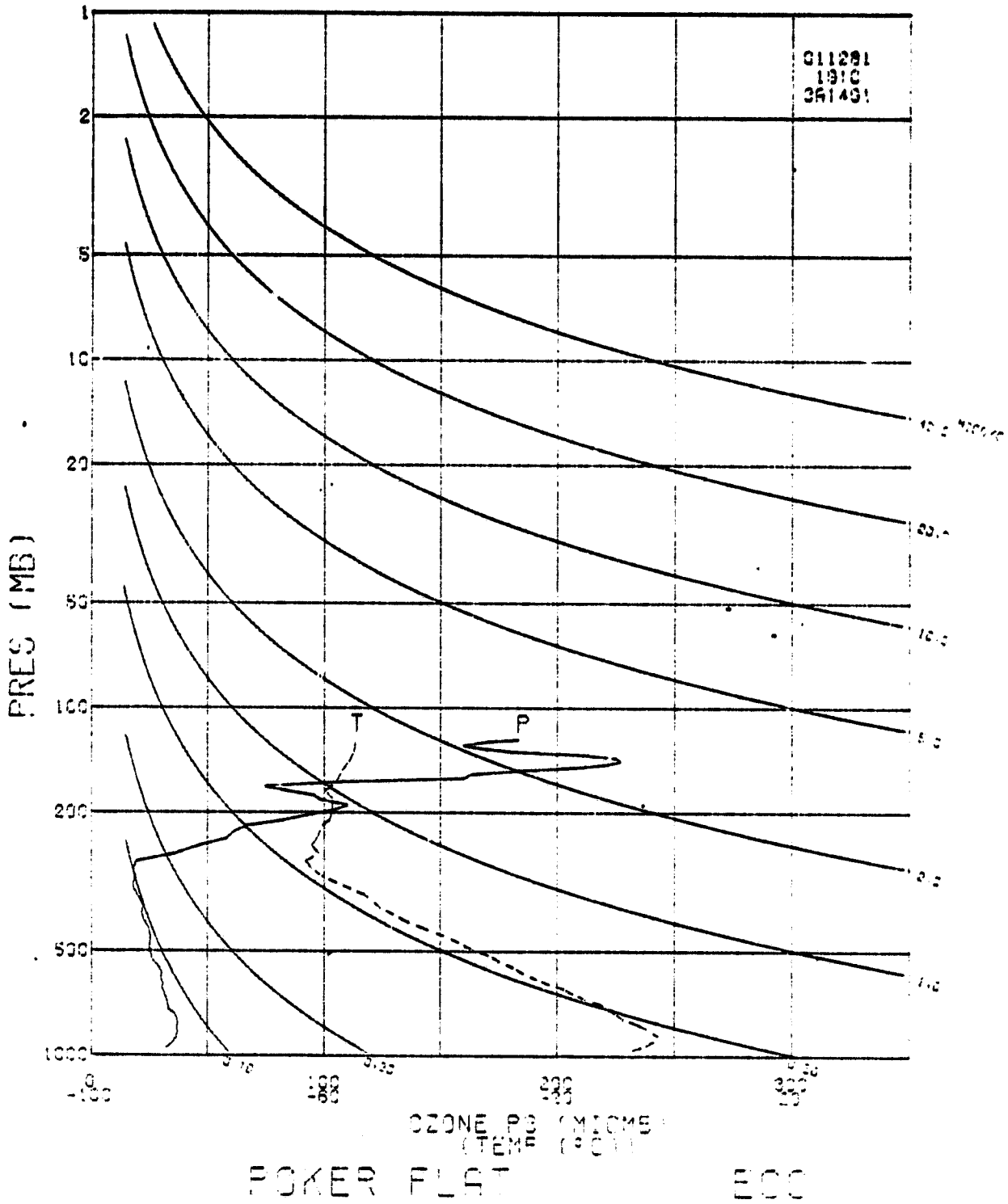
16.1	4036	29.9	0.01326	69.2	0.08	600.0	2.7782	249.6	288.8	249.65	67.4	245.2	0.0006	999.9	999.9	999.9	999.9
17.0	4295	30.2	0.01410	70.4	0.09	579.0	2.7627	247.4	289.2	247.46	76.8	244.5	0.0006	999.9	999.9	999.9	999.9
18.0	4587	28.9	0.01505	67.8	0.09	556.0	2.7451	245.7	290.5	245.72	67.1	241.4	0.0005	999.9	999.9	999.9	999.9
19.0	4876	26.5	0.01593	62.9	0.08	534.0	2.7275	243.3	291.0	243.32	53.0	236.8	0.0003	999.9	999.9	999.9	999.9
20.0	5174	25.3	0.01679	60.6	0.08	512.0	2.7093	241.4	292.3	241.46	51.8	234.8	0.0003	999.9	999.9	999.9	999.9
20.6	5340	25.0	0.01726	60.2	0.08	500.0	2.6990	239.6	292.1	239.63	51.3	233.0	0.0002	999.9	999.9	999.9	999.9
21.0	5454	24.7	0.01758	59.9	0.08	492.0	2.6920	238.4	291.9	238.39	51.0	231.8	0.0002	999.9	999.9	999.9	999.9
22.0	5757	25.0	0.01844	61.2	0.09	471.0	2.6730	236.2	292.9	236.24	46.7	229.0	0.0002	999.9	999.9	999.9	999.9
23.0	6055	25.0	0.01929	61.8	0.09	451.0	2.6542	233.6	293.3	233.65	42.3	225.7	0.0001	999.9	999.9	999.9	999.9
24.0	6378	24.4	0.02022	61.2	0.09	430.0	2.6335	230.3	293.1	230.31				999.9	999.9	999.9	999.9
25.0	6697	22.5	0.02110	57.3	0.09	410.0	2.6128	227.2	293.1	227.19				999.9	999.9	999.9	999.9
25.5	6860	21.9	0.02153	56.0	0.09	400.0	2.6021	226.0	293.7	226.04				999.9	999.9	999.9	999.9
26.0	7011	21.4	0.02193	54.8	0.09	391.0	2.5922	225.0	294.2	224.99				999.9	999.9	999.9	999.9
27.0	7284	21.7	0.02264	56.3	0.10	375.0	2.5740	222.7	294.8	222.74				999.9	999.9	999.9	999.9
28.0	7586	21.0	0.02342	54.5	0.10	358.0	2.5539	222.4	298.3	222.44				999.9	999.9	599.9	999.9
28.6	7732	20.1	0.02378	52.4	0.09	350.0	2.5441	221.0	298.3	221.03				999.9	999.9	999.9	999.9
29.0	7844	19.3	0.02405	50.8	0.09	344.0	2.5366	219.9	298.4	219.95				999.9	999.9	999.9	999.9
30.0	8090	18.0	0.02462	47.8	0.09	331.0	2.5198	217.5	298.3	217.53				999.9	999.9	999.9	999.9
31.0	8343	17.9	0.02519	48.1	0.09	318.0	2.5024	215.2	298.5	215.17				999.9	999.9	999.9	999.9
32.0	8604	18.4	0.02579	50.1	0.10	305.0	2.4843	212.7	298.6	212.71				999.9	999.9	999.9	999.9
32.3	8706	18.2	0.02602	49.6	0.10	300.0	2.4771	212.1	299.2	212.11				999.9	999.9	999.9	999.9
33.0	8916	17.8	0.02651	48.7	0.10	290.0	2.4624	210.9	300.4	210.88				999.9	999.9	999.9	999.9
34.0	9220	19.3	0.02723	53.0	0.12	276.0	2.4409	209.9	303.3	209.94				999.9	999.9	999.9	999.9
35.0	9541	36.2	0.02837	98.4	0.23	262.0	2.4183	212.2	311.1	212.17				999.9	999.9	999.9	999.9
35.9	9831	45.3	0.02989	123.9	0.30	250.0	2.3979	211.0	313.5	210.98				999.9	999.9	999.9	999.9
36.0	9856	46.0	0.03002	126.1	0.31	249.0	2.3962	210.9	313.7	210.88				999.9	999.9	999.9	999.9
37.0	10161	58.2	0.03205	158.8	0.41	237.0	2.3747	211.8	319.6	211.81				999.9	999.9	999.9	999.9
38.0	10428	61.4	0.03409	167.1	0.45	227.0	2.3560	212.2	324.1	212.17				999.9	999.9	999.9	999.9
39.0	10679	67.0	0.03614	181.8	0.51	218.0	2.3385	212.7	328.7	212.71				999.9	999.9	999.9	999.9
40.0	10912	82.9	0.03835	223.7	0.65	210.0	2.3222	214.0	334.2	213.96				999.9	999.9	999.9	999.9
41.0	11124	93.0	0.04070	250.4	0.76	203.0	2.3075	214.3	338.0	214.31				999.9	999.9	999.9	999.9
41.4	11217	97.8	0.04186	263.3	0.81	200.0	2.3010	214.4	339.5	214.38				999.9	999.9	999.9	999.9
42.0	11344	104.3	0.04343	280.8	0.88	196.0	2.2923	214.5	341.7	214.48				999.9	999.9	999.9	999.9
43.0	11539	109.9	0.04606	295.8	0.96	190.0	2.2788	214.5	344.7	214.48				999.9	999.9	999.9	999.9
44.0	11774	97.9	0.04914	263.5	0.89	183.0	2.2625	214.5	348.4	214.48				999.9	999.9	999.9	999.9
45.0	11947	95.2	0.05125	257.3	0.89	178.0	2.2504	213.6	349.8	213.61				999.9	999.9	999.9	999.9
46.0	12125	84.1	0.05326	227.7	0.81	173.0	2.2380	213.3	352.0	213.25				999.9	999.9	999.9	999.9
47.0	12308	74.6	0.05510	201.3	0.74	168.0	2.2253	214.1	356.5	214.13				999.9	999.9	999.9	999.9
48.0	12497	107.2	0.05727	287.6	1.09	163.0	2.2122	215.2	361.3	215.17				999.9	999.9	999.9	999.9
49.0	12653	159.8	0.05988	427.8	1.67	159.0	2.2014	215.7	364.7	215.69				999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 11281 LAUNCH TIME 1910 GMT ECC SONDE 3A1491X

50.0	12813	163.5	0.06313	437.9	1.75	155.0	2.1903	215.5	367.1	215.52	999.9	999.9	999.9	999.9
51.0	12978	183.8	0.06672	490.9	2.02	151.0	2.1790	216.2	371.0	216.19	999.9	999.9	999.9	999.9
51.3	13020	191.5	0.06774	511.1	2.12	150.0	2.1761	216.4	372.0	216.36	999.9	999.9	999.9	999.9
52.0	13105	207.1	0.06981	551.7	2.32	148.0	2.1703	216.7	374.0	216.70	999.9	999.9	999.9	999.9
53.0	13235	220.8	0.07327	587.4	2.52	145.0	2.1614	217.0	376.8	217.03	999.9	999.9	999.9	999.9
54.0	13367	226.8	0.07696	602.3	2.65	142.0	2.1523	217.4	379.7	217.36	999.9	999.9	999.9	999.9
55.0	13503	224.6	0.08076	595.8	2.68	139.0	2.1430	217.7	382.6	217.69	999.9	999.9	999.9	999.9
56.0	13642	211.3	0.08451	559.9	2.57	136.0	2.1335	217.9	385.2	217.86	999.9	999.9	999.9	999.9
57.0	13784	179.4	0.08795	474.7	2.23	133.0	2.1239	218.2	388.3	218.18	999.9	999.9	999.9	999.9
58.0	13929	166.2	0.09106	440.1	2.12	130.0	2.1139	218.0	390.5	218.02	999.9	999.9	999.9	999.9
59.0	14027	159.3	0.09305	422.2	2.06	128.0	2.1072	217.9	392.0	217.86	999.9	999.9	999.9	999.9
60.0	14127	166.1	0.09508	439.2	2.18	126.0	2.1004	218.3	394.6	218.34	999.9	999.9	999.9	999.9
60.7	14177	169.6	0.09614	449.0	2.25	125.0	2.0969	218.1	395.1	218.13	999.9	999.9	999.9	999.9
61.0	14203	171.4	0.09667	453.9	2.28	124.5	2.0952	218.0	395.4	218.02	999.9	999.9	999.9	999.9
62.0	14280	183.3	0.09837	485.8	2.47	123.0	2.0899	217.9	396.5	217.86	999.9	999.9	999.9	999.9

*** TOTAL INTEGRATED OZONE INVALID ***
*** BALLOON SHORT OF 20 MB HEIGHT ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION POKER FLAT LAUNCH DATE 20981 LAUNCH TIME 1855 GMT ECC SONDE 3A1493X

SURFACE CONDITIONS
PRESS 998.0 MB
TEMP 264.3 K
HUMY 89.0 %

003 = 31.0
OIZ = 30.7
OZC = 61.5
IO = 0.051
PS = 29.9

TBOX CAL = 30.0 C AT 74.1 ORD
BASE CAL = 30.0 C AT 73.6 ORD
HUMIDITY = 59.5 % AT 46.0 ORD

NO SENTRAN AVAILABLE

```
*****************************************************
****                                             ****
****                          PROFILE   DOBSON   ****
****     INTEGRATED OZONE     0.17749            ****
****     RESIDUAL OZONE                          ****
****     TOTAL OZONE                  0.         ****
****                                             ****
*****************************************************
```

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	196	29.7	0.	64.9	0.05	998.0	2.9991	264.4	264.5	264.66	91.1	263.2	0.0018	0.	0.	0.	0.
1.0	400	31.9	0.00064	69.8	0.05	972.0	2.9877	264.2	266.4	264.54	100.0	264.2	0.0020	999.9	999.9	999.9	999.9
2.0	602	37.1	0.00135	80.9	0.06	947.0	2.9763	265.0	269.1	265.30	100.0	265.0	0.0022	999.9	999.9	999.9	999.9
3.0	818	36.6	0.00216	79.9	0.07	921.0	2.9643	264.4	270.7	264.71	100.0	264.4	0.0021	999.9	999.9	999.9	999.9
3.8	997	38.3	0.00285	83.1	0.07	900.0	2.9542	266.3	274.5	266.73	100.0	266.3	0.0026	999.9	999.9	999.9	999.9
4.0	1049	38.8	0.00305	84.0	0.07	894.0	2.9513	266.9	275.6	267.31	100.0	266.9	0.0027	999.9	999.9	999.9	999.9
5.0	1263	38.1	0.00387	81.4	0.07	870.0	2.9395	270.2	281.2	270.81	100.0	270.2	0.0035	999.9	999.9	999.9	999.9
5.8	1446	37.7	0.00457	80.7	0.07	850.0	2.9294	269.8	282.7	270.42	100.0	269.8	0.0035	999.9	999.9	999.9	999.9
6.0	1484	37.7	0.00471	80.6	0.07	846.0	2.9274	269.8	283.0	270.35	100.0	269.8	0.0035	999.9	999.9	999.9	999.9
7.0	1711	36.7	0.00555	78.8	0.07	822.0	2.9149	269.2	284.7	269.72	100.0	269.2	0.0034	999.9	999.9	999.9	999.9
7.9	1924	36.7	0.00634	78.9	0.08	800.0	2.9031	268.9	286.6	269.44	100.0	268.9	0.0035	999.9	999.9	999.9	999.9
8.0	1944	36.7	0.00641	78.9	0.08	798.0	2.9020	268.8	286.8	269.42	100.0	268.8	0.0035	999.9	999.9	999.9	999.9
9.0	2184	37.7	0.00731	81.2	0.08	774.0	2.8887	267.9	288.3	268.48	100.0	267.9	0.0033	999.9	999.9	999.9	999.9
10.0	2431	38.1	0.00825	82.5	0.08	750.0	2.8751	266.7	289.6	267.24	100.0	266.7	0.0031	999.9	999.9	999.9	999.9
11.0	2673	37.0	0.00918	80.6	0.08	727.0	2.8615	265.0	290.2	265.41	100.0	265.0	0.0028	999.9	999.9	999.9	999.9
12.0	2933	36.7	0.01015	80.3	0.09	703.0	2.8470	263.8	291.7	264.22	100.0	263.8	0.0027	999.9	999.9	999.9	999.9
12.1	2966	36.5	0.01027	79.9	0.09	700.0	2.8451	263.7	292.0	264.16	100.0	263.7	0.0027	999.9	999.9	999.9	999.9
13.0	3190	35.1	0.01109	77.0	0.09	680.0	2.8325	263.4	294.0	263.78	100.0	263.4	0.0027	999.9	999.9	999.9	999.9
14.0	3467	34.0	0.01207	74.9	0.09	656.0	2.8169	262.3	295.9	262.75	100.0	262.3	0.0025	999.9	999.9	999.9	999.9
15.0	3741	33.5	0.01302	74.0	0.09	633.0	2.8014	261.2	297.7	261.59	100.0	261.2	0.0024	999.9	999.9	999.9	999.9
16.0	4011	32.3	0.01394	71.8	0.09	611.0	2.7860	259.4	298.6	259.71	100.0	259.4	0.0021	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 20981 LAUNCH TIME 1855 GMT ECC SONDE 3A1493X

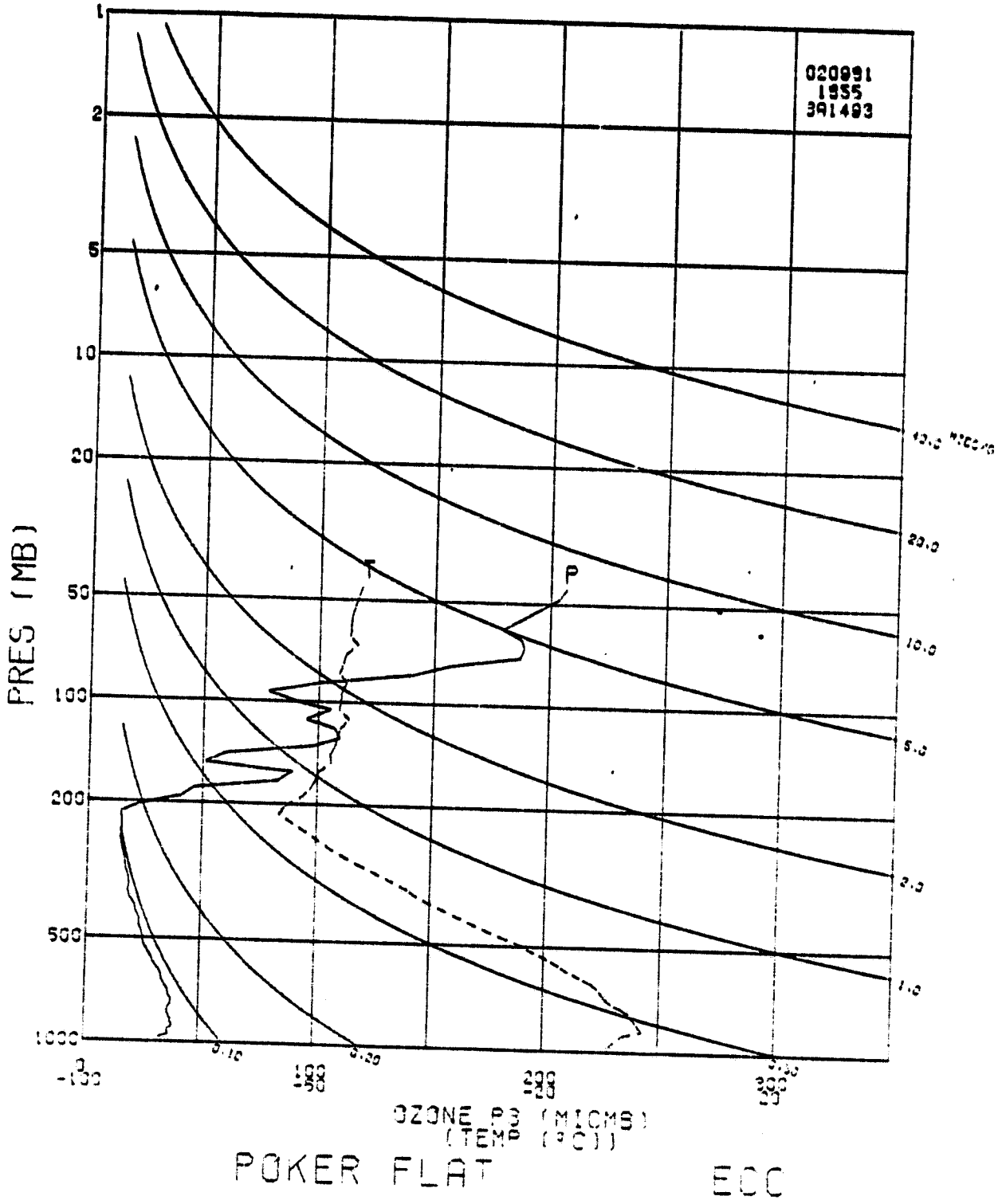
16.5	4148	31.3	0.01439	69.9	0.09	600.0	2.7782	258.4	299.0	258.71	100.0	258.4	0.0019	999.9	999.9	999.9	999.9
17.0	4301	30.2	0.01489	67.8	0.09	588.0	2.7694	257.3	299.4	257.59	100.0	257.3	0.0019	999.9	999.9	999.9	999.9
18.0	4614	29.1	0.01586	65.7	0.09	564.0	2.7513	255.6	301.1	255.91	99.2	255.5	0.0017	999.9	999.9	999.9	999.9
19.0	4924	27.4	0.01679	62.4	0.08	541.0	2.7332	253.6	302.3	253.84	99.4	253.5	0.0015	999.9	999.9	999.9	999.9
20.0	5231	25.8	0.01766	59.2	0.08	519.0	2.7152	251.3	303.1	251.52	99.0	251.2	0.0013	999.9	999.9	999.9	999.9
20.9	5503	25.2	0.01841	58.3	0.08	500.0	2.6990	249.5	304.1	249.66	97.5	249.2	0.0011	999.9	999.9	999.9	999.9
21.0	5548	25.1	0.01853	58.2	0.08	497.0	2.6964	249.2	304.3	249.36	97.2	248.9	0.0011	999.9	999.9	999.9	999.9
22.0	5861	24.7	0.01938	57.8	0.09	476.0	2.6776	246.3	304.5	246.42	93.8	245.6	0.0008	999.9	999.9	999.9	999.9
23.0	6153	23.5	0.02015	55.8	0.09	457.0	2.6599	243.5	304.6	243.62	91.5	242.6	0.0006	999.9	999.9	999.9	999.9
24.0	6454	23.5	0.02094	56.4	0.09	438.0	2.6415	240.9	305.0	240.96	85.3	239.3	0.0005	999.9	999.9	999.9	999.9
25.0	6782	21.9	0.02178	53.1	0.09	418.0	2.6212	238.4	305.8	238.43	82.2	236.4	0.0004	999.9	999.9	999.9	999.9
26.0	7087	21.3	0.02253	52.3	0.09	400.0	2.6021	235.7	306.2	235.74	78.8	233.4	0.0003	999.9	999.9	999.9	999.9
27.0	7403	19.2	0.02327	47.5	0.08	382.0	2.5821	233.1	306.9	233.13				999.9	999.9	999.9	999.9
28.0	7730	18.1	0.02398	45.4	0.08	364.0	2.5611	230.7	307.9	230.66				999.9	999.9	999.9	999.9
28.9	7993	18.5	0.02455	46.7	0.09	350.0	2.5441	229.2	309.4	229.20				999.9	999.9	999.9	999.9
29.0	8032	18.6	0.02463	46.9	0.09	348.0	2.5416	229.0	309.6	228.98				999.9	999.9	999.9	999.9
30.0	8346	18.4	0.02532	47.0	0.09	332.0	2.5211	226.6	310.5	226.56				999.9	999.9	999.9	999.9
31.0	8671	17.3	0.02601	44.6	0.09	316.0	2.4997	223.9	311.2	223.93				999.9	999.9	999.9	999.9
32.0	9009	16.7	0.02671	43.6	0.09	300.0	2.4771	221.1	311.8	221.05				999.9	999.9	999.9	999.9
33.0	9339	16.1	0.02737	42.6	0.09	285.0	2.4548	218.4	312.6	218.38				999.9	999.9	999.9	999.9
34.0	9682	15.2	0.02804	40.6	0.09	270.0	2.4314	215.8	313.6	215.75				999.9	999.9	999.9	999.9
35.0	10041	14.5	0.02871	39.3	0.09	255.0	2.4065	213.5	315.5	213.52				999.9	999.9	999.9	999.9
35.3	10164	14.7	0.02894	39.9	0.10	250.0	2.3979	212.8	316.2	212.76				999.9	999.9	999.9	999.9
36.0	10418	15.0	0.02942	41.1	0.10	240.0	2.3802	211.2	317.5	211.20				999.9	999.9	999.9	999.9
37.0	10760	15.0	0.03008	41.6	0.11	227.0	2.3560	208.9	319.2	208.94				999.9	999.9	999.9	999.9
38.0	11118	14.5	0.03077	40.4	0.11	214.0	2.3304	206.6	320.9	206.57				999.9	999.9	999.9	999.9
39.0	11467	23.2	0.03162	64.6	0.19	202.0	2.3054	207.6	327.8	207.57				999.9	999.9	999.9	999.9
39.2	11527	26.3	0.03187	73.0	0.22	200.0	2.3010	208.0	329.5	208.02				999.9	999.9	999.9	999.9
40.0	11809	40.7	0.03304	111.8	0.35	191.0	2.2810	210.1	337.1	210.08				999.9	999.9	999.9	999.9
41.0	12175	46.8	0.03508	127.6	0.43	180.0	2.2553	211.7	345.6	211.74				999.9	999.9	999.9	999.9
42.0	12530	83.1	0.03801	225.7	0.81	170.0	2.2304	212.6	352.8	212.64				999.9	999.9	999.9	999.9
43.0	12908	89.0	0.04213	241.0	0.92	160.0	2.2041	213.2	359.9	213.17				999.9	999.9	999.9	999.9
44.0	13271	51.2	0.04533	137.2	0.56	151.0	2.1790	215.4	369.7	215.41				999.9	999.9	999.9	999.9
44.1	13312	52.2	0.04562	139.8	0.58	150.0	2.1761	215.4	370.4	215.40				999.9	999.9	999.9	999.9
45.0	13658	60.2	0.04803	161.4	0.70	142.0	2.1523	215.2	376.0	215.25				999.9	999.9	999.9	999.9
46.0	14024	98.0	0.05165	261.9	1.21	134.0	2.1271	216.1	383.7	216.09				999.9	999.9	999.9	999.9
47.0	14363	109.3	0.05604	291.7	1.43	127.0	2.1038	216.4	390.3	216.42				999.9	999.9	999.9	999.9
47.2	14463	108.9	0.05740	290.2	1.44	125.0	2.0969	216.5	392.3	216.54				999.9	999.9	999.9	999.9
48.0	14775	107.3	0.06160	285.7	1.49	119.0	2.0755	216.9	398.5	216.92				999.9	999.9	999.9	999.9
49.0	15161	95.0	0.06644	251.3	1.41	112.0	2.0492	218.4	408.2	218.38				999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 20981 LAUNCH TIME 1855 GMT ECC SONDE 3A1493X

50.0	15572	105.0	0.07154	279.6	1.66	105.0	2.0212	216.8	412.7	216.75	999.9	999.9	999.9	999.9
50.9	15881	91.9	0.07529	244.7	1.52	100.0	2.0000	216.9	418.8	216.89	999.9	999.9	999.9	999.9
51.0	15926	90.1	0.07583	239.7	1.50	99.3	1.9969	216.9	419.6	216.92	999.9	999.9	999.9	999.9
52.0	16315	78.4	0.07990	208.4	1.39	93.4	1.9703	217.1	427.4	217.08	999.9	999.9	999.9	999.9
53.0	16723	100.5	0.08442	266.2	1.90	87.6	1.9425	217.9	436.9	217.89	999.9	999.9	999.9	999.9
54.0	17143	140.8	0.09071	375.3	2.84	82.0	1.9138	216.6	442.6	216.59	999.9	999.9	999.9	999.9
54.4	17299	146.9	0.09362	391.1	3.05	80.0	1.9031	216.8	446.2	216.82	999.9	999.9	999.9	999.9
55.0	17575	157.6	0.09873	418.8	3.41	76.6	1.8842	217.2	452.6	217.24	999.9	999.9	999.9	999.9
56.0	17969	187.3	0.10716	496.8	4.31	72.0	1.8573	217.7	461.7	217.73	999.9	999.9	999.9	999.9
56.4	18149	188.0	0.11134	496.6	4.45	70.0	1.8451	218.6	467.3	218.59	999.9	999.9	999.9	999.9
57.0	18372	188.8	0.11652	496.3	4.63	67.6	1.8299	219.7	474.3	219.65	999.9	999.9	999.9	999.9
58.0	18763	187.6	0.12558	496.1	4.89	63.6	1.8035	218.4	479.8	218.38	999.9	999.9	999.9	999.9
58.9	19135	180.3	0.13402	476.5	4.98	60.0	1.7782	218.5	488.2	218.52	999.9	999.9	999.9	999.9
59.0	19178	179.5	0.13499	474.3	4.99	59.6	1.7752	218.5	489.2	218.54	999.9	999.9	999.9	999.9
60.0	19611	187.2	0.14478	494.2	5.57	55.7	1.7459	218.7	499.1	218.70	999.9	999.9	999.9	999.9
61.0	20064	195.3	0.15544	514.5	6.24	51.9	1.7152	219.2	510.4	219.18	999.9	999.9	999.9	999.9
61.5	20303	199.6	0.16131	525.1	6.62	50.0	1.6990	219.5	516.7	219.51	999.9	999.9	999.9	999.9
62.0	20512	203.4	0.16642	534.2	6.96	48.4	1.6848	219.8	522.2	219.81	999.9	999.9	999.9	999.9
63.0	20953	206.6	0.17749	540.7	7.57	45.2	1.6551	220.6	534.4	220.59	999.9	999.9	999.9	999.9

*** TOTAL INTEGRATED OZONE INVALID ***
*** BALLOON SHORT OF 20 MB HEIGHT ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION POKER FLAT LAUNCH DATE 22081 LAUNCH TIME 1855 GMT ECC SONDE 3A1489X

SURFACE CONDITIONS
PRESS 973.5 MB
TEMP 246.2 K
HUMY 66.0 %

OO3 = 31.0
OIZ = 28.5
OZC = 58.1
IO = 0.421
PS = 28.7

TBOX CAL = 30.0 C AT 74.0 ORD
BASE CAL = 30.0 C AT 73.9 ORD
HUMIDITY = 56.2 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.39675	
RESIDUAL OZONE	0.05402	
TOTAL OZONE	0.45077	0.

NO SONTRAN AVAILABLE

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	196	36.0	0.	84.4	0.06	973.5	2.9883	246.1	248.0	246.17	63.3	241.3	0.0003	0.	0.	0.	0.
1.0	399	49.8	0.00093	111.9	0.09	947.0	2.9763	257.0	261.0	257.14	96.9	256.6	0.0011	999.9	999.9	999.9	999.9
2.0	704	47.9	0.00247	104.2	0.09	910.0	2.9590	265.5	272.8	265.74	62.1	259.5	0.0015	999.9	999.9	999.9	999.9
2.3	789	49.0	0.00290	106.7	0.09	900.0	2.9542	265.1	273.2	265.37	62.0	259.2	0.0014	999.9	999.9	999.9	999.9
3.0	1008	51.7	0.00401	113.1	0.10	875.0	2.9420	264.2	274.5	264.40	61.9	258.2	0.0014	999.9	999.9	999.9	999.9
3.7	1232	51.1	0.00519	111.3	0.10	850.0	2.9294	265.2	277.8	265.37	55.3	257.8	0.0013	999.9	999.9	999.9	999.9
4.0	131[illegible]	50.9	0.00562	110.7	0.10	841.0	2.9248	265.5	279.0	265.73	52.9	257.6	0.0013	999.9	999.9	999.9	999.9
5.0	1644	50.9	0.00732	111.6	0.10	806.0	2.9063	263.5	280.2	263.65	52.4	255.6	0.0012	999.9	999.9	999.9	999.9
5.2	1701	51.3	0.00763	112.7	0.11	800.0	2.9031	262.9	280.2	263.06	52.6	255.1	0.0011	999.9	999.9	999.9	999.9
6.0	1954	53.0	0.00899	117.6	0.11	774.0	2.8887	260.3	280.1	260.47	53.4	252.9	0.0010	999.9	999.9	999.9	999.9
7.0	2274	46.9	0.01065	104.8	0.10	742.0	2.8704	258.2	281.2	258.37	63.3	252.8	0.0010	999.9	999.9	999.9	999.9
8.0	2584	42.4	0.01210	95.8	0.10	712.0	2.8525	255.7	281.8	255.85	53.1	248.5	0.0007	999.9	999.9	999.9	999.9
8.4	2710	43.3	0.01269	98.3	0.10	700.0	2.8451	254.6	281.9	254.72	52.7	247.4	0.0006	999.9	999.9	999.9	999.9
9.0	2904	44.7	0.01358	102.0	0.11	682.0	2.8338	252.9	282.1	252.99	52.2	245.7	0.0006	999.9	999.9	999.9	999.9
10.0	3235	45.5	0.01518	105.1	0.12	652.0	2.8142	250.1	282.6	250.17	52.6	243.1	0.0005	999.9	999.9	999.9	999.9
11.0	3520	45.9	0.01659	106.9	0.12	627.0	2.7973	247.7	283.1	247.77	47.9	239.9	0.0004	999.9	999.9	999.9	999.9
12.0	3837	43.9	0.01815	103.6	0.12	600.0	2.7782	244.8	283.3	244.87	49.6	237.6	0.0003	999.9	999.9	999.9	999.9
13.0	4166	48.9	0.01984	116.1	0.14	573.0	2.7582	243.4	285.3	243.40	32.1	232.1	0.0002	999.9	999.9	999.9	999.9
14.0	4599	49.3	0.02221	118.5	0.15	539.0	2.7316	240.1	286.5	240.12	39.4	231.0	0.0002	999.9	999.9	999.9	999.9
15.0	4850	49.3	0.02361	119.3	0.16	520.0	2.7160	238.5	287.5	238.52	20.8	223.9	0.0001	999.9	999.9	999.9	999.9
16.0	5122	49.3	0.02513	120.3	0.16	500.0	2.6990	236.5	288.3	236.53				999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22081 LAUNCH TIME 1855 GMT ECC SONDE 3A1489X

17.0	5505	47.6	0.02725	117.2	0.17	473.0	2.6749	234.7	290.6	234.66	999.9	999.9	999.9	999.9
18.0	5860	48.0	0.02922	119.5	0.18	449.0	2.6522	231.8	291.4	231.81	999.9	999.9	999.9	999.9
19.0	6200	47.1	0.03110	117.5	0.18	427.0	2.6304	231.1	294.7	231.13	999.9	999.9	999.9	999.9
20.0	6505	43.7	0.03273	110.6	0.18	408.0	2.6107	227.9	294.5	227.93	999.9	999.9	999.9	999.9
20.3	6636	42.0	0.03337	106.8	0.17	400.0	2.6021	227.2	295.3	227.25	999.9	999.9	999.9	999.9
21.0	6890	38.9	0.03462	99.4	0.17	385.0	2.5855	225.9	296.8	225.94	999.9	999.9	999.9	999.9
22.0	7222	40.9	0.03621	105.7	0.19	366.0	2.5635	223.2	297.4	223.16	999.9	999.9	999.9	999.9
22.8	7512	36.9	0.03757	96.3	0.17	350.0	2.5441	220.9	298.1	220.88	999.9	999.9	999.9	999.9
23.0	7568	36.1	0.03783	94.5	0.17	347.0	2.5403	220.4	298.3	220.44	999.9	999.9	999.9	999.9
24.0	7910	35.6	0.03934	93.9	0.18	329.0	2.5172	218.6	300.3	218.56	999.9	999.9	999.9	999.9
25.0	8248	38.1	0.04088	101.1	0.20	312.0	2.4942	217.6	303.5	217.60	999.9	999.9	999.9	999.9
25.8	8496	37.2	0.04204	99.6	0.21	300.0	2.4771	215.9	304.6	215.91	999.9	999.9	999.9	999.9
26.0	8560	37.0	0.04234	99.2	0.21	297.0	2.4728	215.5	304.8	215.47	999.9	999.9	999.9	999.9
27.0	8799	51.2	0.04365	136.0	0.30	286.0	2.4564	217.3	310.7	217.28	999.9	999.9	999.9	999.9
28.0	9163	75.3	0.04652	201.8	0.46	270.0	2.4314	215.5	313.2	215.47	999.9	999.9	999.9	999.9
29.0	9500	76.7	0.04972	203.8	0.50	256.0	2.4082	217.3	320.7	217.28	999.9	999.9	999.9	999.9
29.4	9651	84.8	0.05135	224.7	0.56	250.0	2.3979	217.8	323.7	217.85	999.9	999.9	999.9	999.9
30.0	9885	97.4	0.05386	257.1	0.67	241.0	2.3820	218.7	328.4	218.72	999.9	999.9	999.9	999.9
31.0	10156	110.3	0.05734	291.1	0.79	231.0	2.3636	218.7	332.4	218.72	999.9	999.9	999.9	999.9
32.0	10469	117.5	0.06172	308.4	0.89	220.0	2.3424	220.0	339.0	219.97	999.9	999.9	999.9	999.9
33.0	10769	125.1	0.06617	326.4	0.99	210.0	2.3222	221.2	345.5	221.20	999.9	999.9	999.9	999.9
34.0	11085	130.6	0.07109	340.3	1.08	200.0	2.3010	221.5	350.8	221.51	999.9	999.9	999.9	999.9
35.0	11451	161.8	0.07762	422.5	1.42	189.0	2.2765	221.1	355.8	221.05	999.9	999.9	999.9	999.9
36.0	11767	196.1	0.08451	509.5	1.81	180.0	2.2553	222.3	362.8	222.26	999.9	999.9	999.9	999.9
37.0	12139	188.6	0.09318	489.0	1.84	170.0	2.2304	222.7	369.5	222.71	999.9	999.9	999.9	999.9
38.0	12493	181.7	0.10113	471.4	1.87	161.0	2.2068	222.6	375.0	222.56	999.9	999.9	999.9	999.9
39.0	12867	168.3	0.10908	438.2	1.84	152.0	2.1818	221.8	380.0	221.81	999.9	999.9	999.9	999.9
39.2	12952	156.3	0.11054	407.3	1.72	150.0	2.1761	221.4	380.8	221.45	999.9	999.9	999.9	999.9
40.0	13262	112.8	0.11585	295.8	1.31	143.0	2.1553	220.1	383.7	220.13	999.9	999.9	999.9	999.9
41.0	13585	125.8	0.12057	329.4	1.53	136.0	2.1335	220.6	390.1	220.59	999.9	999.9	999.9	999.9
42.0	13876	81.7	0.12426	213.4	1.04	130.0	2.1139	220.9	395.7	220.90	999.9	999.9	999.9	999.9
42.7	14128	86.2	0.12689	225.8	1.14	125.0	2.0969	220.4	399.2	220.35	999.9	999.9	999.9	999.9
43.0	14233	88.0	0.12797	230.8	1.19	123.0	2.0899	220.1	400.6	220.13	999.9	999.9	999.9	999.9
44.0	14610	97.0	0.13225	254.6	1.39	116.0	2.0645	220.0	407.1	219.97	999.9	999.9	999.9	999.9
45.0	14951	111.9	0.13662	295.1	1.69	110.0	2.0414	218.9	411.2	218.88	999.9	999.9	999.9	999.9
46.0	15372	115.9	0.14253	306.3	1.87	103.0	2.0128	218.6	418.4	218.56	999.9	999.9	999.9	999.9
46.5	15560	116.4	0.14525	308.4	1.93	100.0	2.0000	217.9	420.8	217.95	999.9	999.9	999.9	999.9
47.0	15715	116.8	0.14748	310.1	1.98	97.6	1.9894	217.4	422.7	217.44	999.9	999.9	999.9	999.9
48.0	16049	134.2	0.15269	356.4	2.40	92.6	1.9666	217.4	429.1	217.44	999.9	999.9	999.9	999.9
49.0	16387	162.0	0.15891	430.9	3.06	87.8	1.9435	217.1	435.1	217.12	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22081 LAUNCH TIME 1855 GMT ECC SONDE 3A1489X

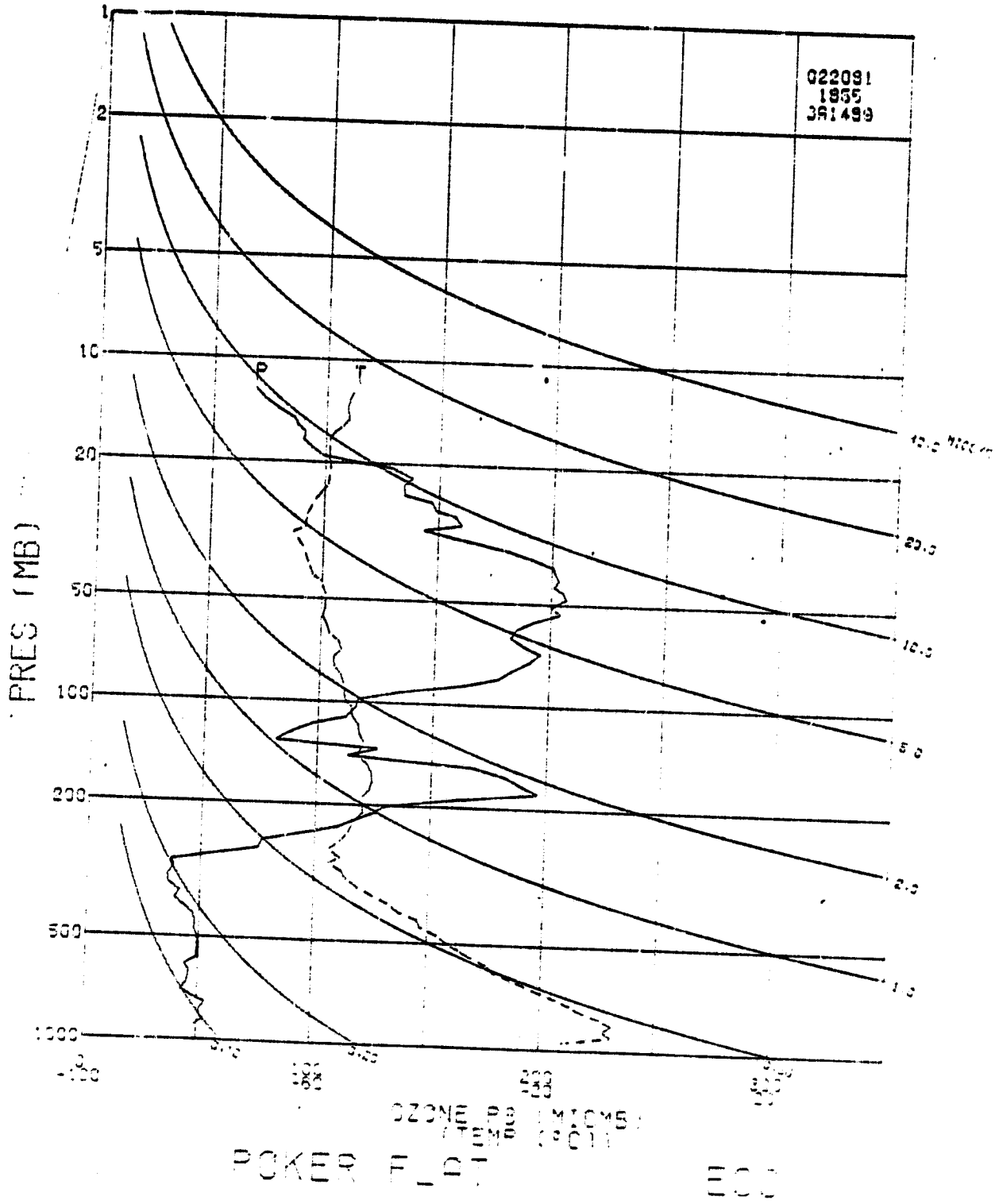
50.0	16728	178.3	0.16613	475.1	3.55	83.2	1.9201	216.6	440.8	216.63	999.9	999.9	999.9	999.9
50.7	16975	182.1	0.17174	487.1	3.77	80.0	1.9031	215.8	444.1	215.83	999.9	999.9	999.9	999.9
51.0	17087	183.8	0.17426	492.5	3.87	78.6	1.8954	215.5	445.6	215.47	999.9	999.9	999.9	999.9
52.0	17450	191.3	0.18278	513.0	4.27	74.2	1.8704	215.3	452.7	215.31	999.9	999.9	999.9	999.9
53.0	17809	195.6	0.19146	521.3	4.62	70.1	1.8457	216.6	462.9	216.63	999.9	999.9	999.9	999.9
53.0	17818	195.4	0.19168	520.8	4.63	70.0	1.8451	216.6	463.1	216.62	999.9	999.9	999.9	999.9
54.0	18143	188.2	0.19944	502.8	4.69	66.5	1.8228	216.1	468.9	216.14	999.9	999.9	999.9	999.9
55.0	18483	182.8	0.20736	492.0	4.81	63.0	1.7993	214.5	472.5	214.46	999.9	999.9	999.9	999.9
55.9	18788	184.8	0.21444	498.4	5.10	60.0	1.7782	214.0	478.2	214.03	999.9	999.9	999.9	999.9
56.0	18841	185.1	0.21565	499.5	5.15	59.5	1.7745	214.0	479.1	213.95	999.9	999.9	999.9	999.9
57.0	19197	192.7	0.22416	521.6	5.68	56.2	1.7497	213.3	485.4	213.26	999.9	999.9	999.9	999.9
58.0	19528	203.8	0.23244	550.9	6.34	53.3	1.7267	213.6	493.6	213.61	999.9	999.9	999.9	999.9
59.0	19852	200.1	0.24073	541.8	6.55	50.6	1.7042	213.3	500.2	213.26	999.9	999.9	999.9	999.9
59.3	19926	201.7	0.24264	545.8	6.69	50.0	1.6990	213.3	502.1	213.35	999.9	999.9	999.9	999.9
60.0	20142	206.2	0.24819	557.5	7.08	48.3	1.6839	213.6	507.7	213.61	999.9	999.9	999.9	999.9
61.0	20419	205.2	0.25540	555.2	7.36	46.2	1.6646	213.4	513.8	213.43	999.9	999.9	999.9	999.9
62.0	20681	200.9	0.26213	545.2	7.51	44.3	1.6464	212.7	518.3	212.74	999.9	999.9	999.9	999.9
63.0	20924	202.9	0.26836	554.5	7.89	42.6	1.6294	211.3	520.6	211.31	999.9	999.9	999.9	999.9
64.0	21190	201.3	0.27525	551.6	8.18	40.8	1.6107	210.8	525.7	210.77	999.9	999.9	999.9	999.9
64.4	21312	200.9	0.27839	550.9	8.33	40.0	1.6021	210.6	528.3	210.60	999.9	999.9	999.9	999.9
65.0	21468	200.4	0.28240	550.0	8.52	39.0	1.5911	210.4	531.6	210.40	999.9	999.9	999.9	999.9
66.0	21775	192.1	0.29014	528.1	8.58	37.1	1.5694	210.0	538.3	210.03	999.9	999.9	999.9	999.9
67.0	22097	181.8	0.29789	501.0	8.56	35.2	1.5465	209.5	545.0	209.47	999.9	999.9	999.9	999.9
67.1	22131	180.1	0.29868	496.5	8.52	35.0	1.5441	209.4	545.7	209.40	999.9	999.9	999.9	999.9
68.0	22382	168.2	0.30431	464.8	8.29	33.6	1.5263	208.9	550.8	208.90	999.9	999.9	999.9	999.9
69.0	22679	152.4	0.31049	423.7	7.89	32.0	1.5051	207.7	555.4	207.74	999.9	999.9	999.9	999.9
70.0	22892	143.5	0.31457	395.0	7.70	30.9	1.4900	209.8	566.7	209.84	999.9	999.9	999.9	999.9
70.8	23073	156.8	0.31811	431.1	8.67	30.0	1.4771	210.0	571.9	209.99	999.9	999.9	999.9	999.9
71.0	23114	159.8	0.31891	439.3	8.89	29.8	1.4742	210.0	573.1	210.03	999.9	999.9	999.9	999.9
72.0	23453	157.1	0.32581	431.6	9.23	28.2	1.4502	210.2	582.7	210.21	999.9	999.9	999.9	999.9
73.0	23720	148.2	0.33105	407.2	9.10	27.0	1.4314	210.2	590.0	210.21	999.9	999.9	999.9	999.9
74.0	24048	146.5	0.33724	400.1	9.49	25.6	1.4082	211.5	602.7	211.49	999.9	999.9	999.9	999.9
74.5	24194	140.1	0.33987	381.7	9.28	25.0	1.3979	212.0	608.2	211.97	999.9	999.9	999.9	999.9
75.0	24320	134.7	0.34211	366.1	9.11	24.5	1.3892	212.4	612.9	212.38	999.9	999.9	999.9	999.9
76.0	24687	134.2	0.34835	362.6	9.62	23.1	1.3636	213.6	626.8	213.61	999.9	999.9	999.9	999.9
77.0	25020	137.7	0.35408	372.2	10.42	21.9	1.3404	213.6	636.5	213.61	999.9	999.9	999.9	999.9
78.0	25433	129.1	0.36103	348.5	10.44	20.5	1.3118	214.0	649.6	213.95	999.9	999.9	999.9	999.9
78.7	25587	117.8	0.36339	318.1	9.75	20.0	1.3010	213.7	653.5	213.71	999.9	999.9	999.9	999.9
79.0	25650	113.1	0.36435	305.8	9.47	19.8	1.2967	213.6	655.1	213.61	999.9	999.9	999.9	999.9
80.0	25908	98.3	0.36779	265.7	8.57	19.0	1.2788	213.6	662.8	213.61	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22081 LAUNCH TIME 1855 GMT ECC SONDE 3A14B9X

81.0	26211	93.7	0.37147	253.4	8.58	18.1	1.2577	213.6	672.1	213.61	999.9	999.9	999.9	999.9
81.7	26421	91.3	0.37391	246.8	8.64	17.5	1.2430	213.6	678.6	213.61	999.9	999.9	999.9	999.9
82.0	26530	90.1	0.37517	243.4	8.68	17.2	1.2355	213.6	681.9	213.61	999.9	999.9	999.9	999.9
83.0	26866	90.5	0.37900	243.7	9.20	16.3	1.2122	214.5	695.3	214.46	999.9	999.9	999.9	999.9
84.0	27142	87.5	0.38208	234.0	9.30	15.6	1.1931	216.0	709.0	215.97	999.9	999.9	999.9	999.9
84.9	27390	86.2	0.38476	229.5	9.52	15.0	1.1761	216.8	719.8	216.81	999.9	999.9	999.9	999.9
85.0	27433	85.9	0.38522	228.7	9.56	14.9	1.1732	217.0	721.6	216.96	999.9	999.9	999.9	999.9
86.0	27828	78.9	0.38927	210.2	9.33	14.0	1.1461	216.6	733.5	216.63	999.9	999.9	999.9	999.9
87.0	28249	72.7	0.39325	193.4	9.19	13.1	1.1173	217.0	748.7	216.96	999.9	999.9	999.9	999.9
87.7	28547	69.5	0.39586	184.5	9.21	12.5	1.0969	217.6	760.9	217.56	999.9	999.9	999.9	999.9
88.0	28650	68.4	0.39675	181.4	9.22	12.3	1.0899	217.8	765.1	217.76	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION POKER FLAT LAUNCH DATE 22581 LAUNCH TIME 1900 GMT ECC SONDE 3A1490X

SURFACE CONDITIONS
PRESS 980.0 MB
TEMP 264.2 K
HUMY 77.0 %

003 = 30.9
OIZ = 30.4
OZC = 59.3
IO = 0.090
PS = 30.0

TBOX CAL = 30.0 C AT 74.1 ORD
BASE CAL = 20.0 C AT 75.1 ORD
HUMIDITY = 46.5 % AT 46.0 ORD

NO SENTRAN AVAILABLE

```
*****************************************************
****                                             ****
****                          PROFILE   DOBSON   ****
****      INTEGRATED OZONE    0.39568            ****
****      RESIDUAL OZONE      0.02505            ****
****      TOTAL OZONE         0.42073   0.       ****
****                                             ****
*****************************************************
```

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	196	25.2	0.	55.1	0.04	980.0	2.9912	264.1	265.7	264.37	77.0	260.8	0.0015	0.	0.	0.	0.
1.0	414	31.4	0.00062	67.5	0.05	953.0	2.9791	268.8	272.5	269.20	80.9	266.0	0.0023	999.9	999.9	999.9	999.9
2.0	607	32.3	0.00124	69.0	0.06	930.0	2.9685	270.5	276.2	271.06	91.8	269.4	0.0031	999.9	999.9	999.9	999.9
3.0	805	32.3	0.00188	69.4	0.06	907.0	2.9576	269.1	276.7	269.54	80.9	266.3	0.0025	999.9	999.9	999.9	999.9
3.3	865	32.5	0.00208	69.7	0.06	900.0	2.9542	268.9	277.1	269.26	79.3	265.8	0.0024	999.9	999.9	999.9	999.9
4.0	1016	32.8	0.00257	70.6	0.06	883.0	2.9460	268.2	277.9	268.56	75.2	264.5	0.0022	999.9	999.9	999.9	999.9
5.0	1223	32.3	0.00324	69.8	0.06	860.0	2.9345	267.3	279.0	267.63	75.7	263.7	0.0022	999.9	999.9	999.9	999.9
5.5	1314	32.5	0.00354	70.4	0.06	850.0	2.9294	266.6	279.3	266.97	76.6	263.2	0.0021	999.9	999.9	999.9	999.9
6.0	1416	32.8	0.00388	71.1	0.06	839.0	2.9238	265.9	279.6	266.24	77.6	262.7	0.0020	999.9	999.9	999.9	999.9
7.0	1622	32.9	0.00457	71.8	0.07	817.0	2.9122	264.3	280.0	264.62	91.6	263.1	0.0022	999.9	999.9	999.9	999.9
7.7	1784	32.8	0.00511	71.9	0.07	800.0	2.9031	263.3	280.6	263.63	97.3	262.9	0.0022	999.9	999.9	999.9	999.9
8.0	1862	32.7	0.00537	71.9	0.07	792.0	2.8987	262.8	280.9	263.16	100.0	262.8	0.0022	999.9	999.9	999.9	999.9
9.0	2078	33.2	0.00610	73.3	0.07	770.0	2.8865	261.5	281.8	261.83	100.0	261.5	0.0020	999.9	999.9	999.9	999.9
10.0	2289	3[illegible].8	0.00684	74.9	0.07	749.0	2.8745	260.8	283.2	261.10	100.0	260.8	0.0020	999.9	999.9	999.9	999.9
11.0	2558	33.2	0.00777	73.9	0.08	723.0	2.8591	259.5	284.7	259.81	100.0	259.5	0.0018	999.9	999.9	999.9	999.9
12.0	2738	33.5	0.00840	74.7	0.08	706.0	2.8488	258.4	285.4	258.67	100.0	258.4	0.0017	999.9	999.9	999.9	999.9
12.3	2802	33.1	0.00862	74.1	0.08	700.0	2.8451	257.9	285.5	258.14	100.0	257.9	0.0016	999.9	999.9	999.9	999.9
13.0	2944	32.3	0.00910	72.6	0.08	687.0	2.8370	256.7	285.8	256.97	100.0	256.7	0.0015	999.9	999.9	999.9	999.9
14.0	3176	32.9	0.00990	74.4	0.08	666.0	2.8235	255.1	286.5	255.31	100.0	255.1	0.0014	999.9	999.9	999.9	999.9
15.0	3415	30.5	0.01070	69.3	0.08	645.0	2.8096	254.0	287.9	254.21	100.0	254.0	0.0013	999.9	999.9	999.9	999.9
16.0	3672	30.5	0.01154	69.9	0.08	623.0	2.7945	251.9	288.3	252.04	100.0	251.9	0.0011	99[illegible].9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22581 LAUNCH TIME 1900 GMT ECC SONDE 3A1490X

17.0	3936	31.0	0.01241	71.6	0.09	601.0	2.7789	249.7	288.9	249.89	100.0	249.7	0.0010	999.9	999.9	999.9	999.9
17.0	3948	31.0	0.01245	71.7	0.09	600.0	2.7782	249.7	289.0	249.86	100.0	249.7	0.0009	999.9	999.9	999.9	999.9
18.0	4208	31.9	0.01334	74.0	0.09	579.0	2.7627	249.0	291.0	249.10	100.0	249.0	0.0009	999.9	999.9	999.9	999.9
19.0	4463	29.7	0.01419	69.4	0.09	559.0	2.7474	246.7	291.3	246.85	100.0	246.7	0.0008	999.9	999.9	999.9	999.9
20.0	4752	29.0	0.01512	68.2	0.09	537.0	2.7300	245.0	292.7	245.15	100.0	245.0	0.0007	999.9	999.9	999.9	999.9
21.0	4982	25.9	0.01581	61.6	0.08	520.0	2.7166	243.1	293.0	243.19	100.0	243.1	0.0006	999.9	999.9	999.9	999.9
22.0	5260	25.3	0.01661	60.6	0.08	500.0	2.6990	241.4	294.3	241.50	97.9	241.2	0.0005	999.9	999.9	999.9	999.9
23.0	5532	25.6	0.01739	61.9	0.09	481.0	2.6821	239.2	294.9	239.28	88.0	237.9	0.0004	999.9	999.9	999.9	999.9
24.0	5813	24.4	0.01818	59.5	0.09	462.0	2.6646	237.0	295.5	237.06	79.9	234.8	0.0003	999.9	999.9	999.9	999.9
25.0	6103	23.2	0.01897	57.2	0.09	443.0	2.6464	234.5	296.0	234.57	77.7	232.1	0.0002	999.9	999.9	999.9	999.9
26.0	6386	22.6	0.01972	56.4	0.09	425.0	2.6284	231.9	296.1	231.90				999.9	999.9	999.9	999.9
27.0	6628	23.2	0.02037	58.6	0.09	410.0	2.6128	229.1	295.6	229.09				999.9	999.9	999.9	999.9
27.6	6792	22.2	0.02081	56.3	0.09	400.0	2.6021	227.3	295.3	227.25				999.9	999.9	999.9	999.9
28.0	6910	21.4	0.02112	54.7	0.09	393.0	2.5944	225.9	295.0	225.94				999.9	999.9	999.9	999.9
29.0	7271	21.1	0.02204	54.6	0.09	372.0	2.5705	223.1	296.0	223.12				999.9	999.9	999.9	999.9
30.0	7593	21.6	0.02288	56.3	0.10	354.0	2.5490	221.1	297.5	221.09				999.9	999.9	999.9	999.9
30.2	7666	22.0	0.02308	57.5	0.10	350.0	2.5441	220.6	297.8	220.62				999.9	999.9	999.9	999.9
31.0	7891	23.2	0.02369	61.1	0.11	338.0	2.5289	219.2	298.8	219.16				999.9	999.9	999.9	999.9
32.0	8220	24.8	0.02467	66.0	0.13	321.0	2.5065	216.7	299.8	216.70				999.9	999.9	999.9	999.9
33.0	8505	62.6	0.02620	164.4	0.34	307.0	2.4871	219.8	307.9	219.76				999.9	999.9	999.9	999.9
33.5	8654	73.3	0.02756	191.5	0.41	300.0	2.4771	220.8	311.5	220.84				999.9	999.9	999.9	999.9
34.0	8829	85.9	0.02914	223.3	0.49	292.0	2.4654	222.1	315.7	222.11				999.9	999.9	999.9	999.9
35.0	9102	99.2	0.03220	256.6	0.59	280.0	2.4472	223.1	321.0	223.12				999.9	999.9	999.9	999.9
36.0	9461	111.4	0.03678	288.5	0.70	265.0	2.4232	223.0	325.9	222.98				999.9	999.9	999.9	999.9
37.0	9815	106.4	0.04144	275.4	0.70	251.0	2.3997	223.1	331.2	223.12				999.9	999.9	999.9	999.9
37.1	9840	105.7	0.04176	273.7	0.70	250.0	2.3979	223.1	331.5	223.05				999.9	999.9	999.9	999.9
38.0	10216	95.8	0.04636	249.1	0.67	236.0	2.3729	222.1	335.5	222.11				999.9	999.9	999.9	999.9
39.0	10525	93.1	0.04992	242.9	0.69	225.0	2.3522	221.2	338.8	221.24				999.9	999.9	999.9	999.9
40.0	10880	91.2	0.05390	237.9	0.71	213.0	2.3284	221.2	344.2	221.24				999.9	999.9	999.9	999.9
41.0	11096	81.1	0.05617	211.7	0.65	206.0	2.3139	221.2	347.5	221.24				999.9	999.9	999.9	999.9
41.7	11287	73.4	0.05794	191.3	0.61	200.0	2.3010	221.6	350.9	221.56				999.9	999.9	999.9	999.9
42.0	11352	70.8	0.05855	184.4	0.59	198.0	2.2967	221.7	352.1	221.67				999.9	999.9	999.9	999.9
43.0	11689	63.1	0.06128	163.2	0.56	188.0	2.2742	223.4	360.1	223.40				999.9	999.9	999.9	999.9
44.0	12010	63.7	0.06374	164.0	0.59	179.0	2.2529	224.1	366.4	224.12				999.9	999.9	999.9	999.9
45.0	12349	67.7	0.06641	173.3	0.66	170.0	2.2304	225.5	374.2	225.52				999.9	999.9	999.9	999.9
46.0	12666	77.1	0.06917	198.6	0.79	162.0	2.2095	224.0	376.7	223.97				999.9	999.9	999.9	999.9
47.0	12954	77.0	0.07185	199.8	0.82	155.0	2.1903	222.5	379.1	222.54				999.9	999.9	999.9	999.9
47.7	13166	72.2	0.07375	188.0	0.80	150.0	2.1761	221.6	381.1	221.62				999.9	999.9	999.9	999.9
48.0	13254	70.2	0.07453	183.1	0.79	148.0	2.1703	221.2	381.9	221.24				999.9	999.9	999.9	999.9
49.0	13522	71.9	0.07685	187.7	0.84	142.0	2.1523	221.2	386.4	221.24				999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22581 LAUNCH TIME 1900 GMT ECC SONDE 3A1490X

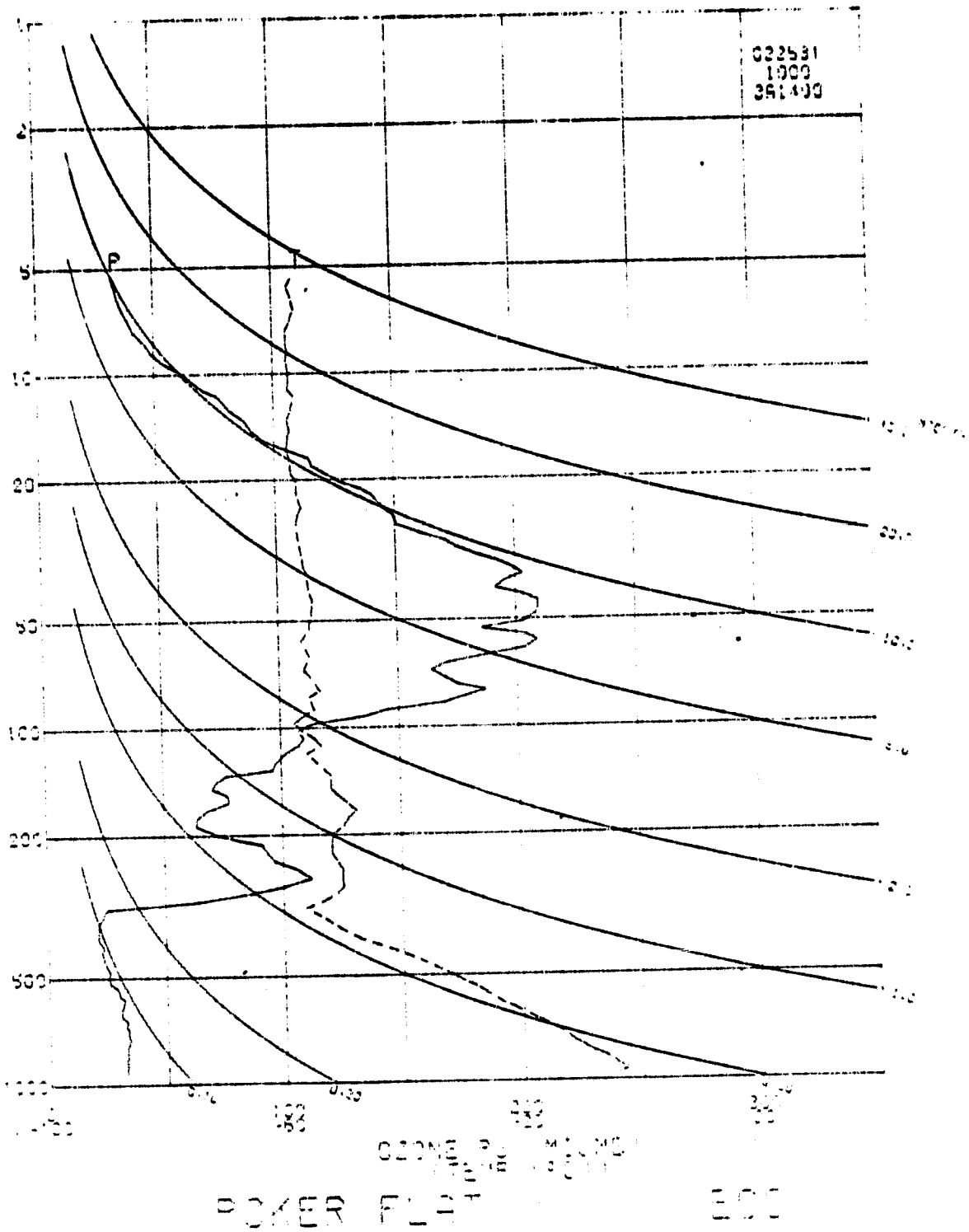
50.0	13801	76.3	0.07938	199.2	0.93	136.0	2.1335	221.2	391.2	221.24	999.9	999.9	999.9	999.9
51.0	14043	96.2	0.08193	251.1	1.22	131.0	2.1173	221.2	395.4	221.24	999.9	999.9	999.9	999.9
52.0	14293	97.2	0.08490	256.2	1.28	126.0	2.1004	219.2	396.1	219.16	999.9	999.9	999.9	999.9
52.1	14343	97.8	0.08552	257.9	1.30	125.0	2.0969	218.9	396.6	218.94	999.9	999.9	999.9	999.9
53.0	14712	101.7	0.09005	270.1	1.43	118.0	2.0719	217.3	400.2	217.33	999.9	999.9	999.9	999.9
54.0	15046	107.4	0.09435	282.2	1.59	112.0	2.0492	219.8	410.8	219.76	999.9	999.9	999.9	999.9
55.0	15339	109.6	0.09826	289.4	1.70	107.0	2.0294	218.7	414.2	218.70	999.9	999.9	999.9	999.9
56.0	15644	106.8	0.10235	284.6	1.74	102.0	2.0086	216.7	416.0	216.70	999.9	999.9	999.9	999.9
56.4	15768	110.0	0.10408	294.0	1.83	100.0	2.0000	216.1	417.3	216.12	999.9	999.9	999.9	999.9
57.0	15948	114.6	0.10656	307.4	1.95	97.2	1.9877	215.3	419.0	215.28	999.9	999.9	999.9	999.9
58.0	16227	135.1	0.11091	359.9	2.41	93.0	1.9685	216.7	427.2	216.70	999.9	999.9	999.9	999.9
59.0	16507	145.6	0.11578	384.3	2.71	89.0	1.9494	218.7	436.5	218.70	999.9	999.9	999.9	999.9
60.0	16793	169.3	0.12135	447.9	3.30	85.1	1.9299	218.2	441.2	218.25	999.9	999.9	999.9	999.9
61.0	17053	177.9	0.12693	471.3	3.61	81.7	1.9122	217.9	445.8	217.94	999.9	999.9	999.9	999.9
61.6	17187	182.6	0.12995	481.5	3.78	80.0	1.9031	219.0	450.6	218.96	999.9	999.9	999.9	999.9
62.0	17292	186.3	0.13231	489.5	3.92	78.7	1.8960	219.8	454.3	219.76	999.9	999.9	999.9	999.9
63.0	17567	174.0	0.13839	456.4	3.82	75.4	1.8774	220.1	460.6	220.06	999.9	999.9	999.9	999.9
64.0	17863	168.5	0.14463	445.7	3.88	72.0	1.8573	218.2	462.8	218.25	999.9	999.9	999.9	999.9
64.7	18042	165.3	0.14832	438.7	3.91	70.0	1.8451	217.5	465.1	217.53	999.9	999.9	999.9	999.9
65.0	18134	163.7	0.15021	435.1	3.93	69.0	1.8388	217.2	466.2	217.17	999.9	999.9	999.9	999.9
66.0	18416	169.8	0.15605	451.8	4.26	66.0	1.8195	217.0	471.8	217.02	999.9	999.2	999.9	999.9
67.0	18712	186.0	0.16258	492.3	4.89	63.0	1.7993	218.1	480.5	218.09	999.9	999.9	999.9	999.9
68.0	19023	203.6	0.17008	538.6	5.62	60.0	1.7782	218.2	487.6	218.25	999.9	999.9	999.9	999.9
69.0	19316	208.5	0.17757	555.5	6.03	57.3	1.7582	216.7	490.5	216.70	999.9	999.9	999.9	999.9
70.0	19564	203.8	0.18394	541.4	6.13	55.1	1.7412	217.3	497.5	217.33	999.9	999.9	999.9	999.9
71.0	19835	185.3	0.19048	490.5	5.81	52.8	1.7226	218.1	505.4	218.09	999.9	999.9	999.9	999.9
72.0	20119	202.7	0.19730	536.2	6.65	50.5	1.7033	218.2	512.2	218.25	999.9	999.9	999.9	999.9
72.2	20182	203.8	0.19891	539.1	6.76	50.0	1.6990	218.3	513.8	218.31	999.9	999.9	999.9	999.9
73.0	20417	208.0	0.20485	549.5	7.15	48.2	1.6830	218.6	519.8	218.55	999.9	999.9	999.9	999.9
74.0	20688	209.1	0.21183	552.4	7.50	46.2	1.6646	218.6	526.1	218.55	999.9	999.9	999.9	999.9
75.0	20971	209.2	0.21913	551.9	7.84	44.2	1.6454	218.9	533.6	218.86	999.9	999.9	999.9	999.9
76.0	21237	202.8	0.22589	536.0	7.92	42.4	1.6274	218.4	538.8	218.40	999.9	999.9	999.9	999.9
77.0	21514	191.3	0.23263	506.5	7.81	40.6	1.6085	218.1	544.8	218.09	999.9	999.9	999.9	999.9
77.3	21609	192.6	0.23490	509.9	7.98	40.0	1.6021	218.0	547.0	218.04	999.9	999.9	999.9	999.9
78.0	21787	194.9	0.23915	516.2	8.30	38.9	1.5899	217.9	551.1	217.94	999.9	999.9	999.9	999.9
79.0	22089	202.3	0.24657	536.0	9.04	37.1	1.5694	217.9	558.6	217.94	999.9	999.9	999.9	999.9
80.0	22406	197.5	0.25442	524.6	9.27	35.3	1.5478	217.3	565.0	217.33	999.9	999.9	999.9	999.9
80.2	22460	196.1	0.25573	521.2	9.29	35.0	1.5441	217.3	566.3	217.29	999.9	999.9	999.9	999.9
81.0	22663	191.2	0.26062	508.2	9.34	33.9	1.5302	217.2	571.1	217.17	999.9	999.9	999.9	999.9
82.0	22931	182.4	0.26684	485.4	9.30	32.5	1.5119	217.0	577.7	217.02	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22581 LAUNCH TIME 1900 GMT ECC SONDE 3A1490X

83.0	23231	174.6	0.27350	465.1	9.33	31.0	1.4914	216.7	584.7	216.70	999.9	999.9	999.9	999.9
83.7	23438	170.9	0.27795	455.7	9.44	30.0	1.4771	216.6	589.9	216.59	999.9	999.9	999.9	999.9
84.0	23524	169.5	0.27977	451.8	9.49	29.6	1.4713	216.5	592.0	216.55	999.9	999.9	999.9	999.9
85.0	23831	159.1	0.28605	424.8	9.35	28.2	1.4502	216.2	599.4	216.23	999.9	999.9	999.9	999.9
86.0	24177	150.0	0.29271	400.4	9.31	26.7	1.4265	216.2	608.8	216.23	999.9	999.9	999.9	999.9
87.0	24543	148.4	0.29952	395.6	9.76	25.2	1.4014	216.5	619.9	216.55	999.9	999.9	999.9	999.9
87.2	24593	147.8	0.30044	393.8	9.79	25.0	1.3979	216.6	621.6	216.64	999.9	999.9	999.9	999.9
88.0	24879	144.3	0.30563	383.6	10.00	23.9	1.3784	217.2	631.1	217.17	999.9	999.9	999.9	999.9
89.0	25122	142.0	0.30997	378.7	10.23	23.0	1.3617	216.5	636.3	216.55	999.9	999.9	999.9	999.9
90.0	25403	139.8	0.31491	373.0	10.53	22.0	1.3424	216.4	643.9	216.39	999.9	999.9	999.9	999.9
91.0	25668	134.7	0.31944	358.1	10.58	21.1	1.3243	217.2	654.0	217.17	999.9	999.9	999.9	999.9
92.0	25944	126.3	0.32393	337.0	10.36	20.2	1.3054	216.4	659.8	216.39	999.9	999.9	999.9	999.9
92.2	26006	125.2	0.32490	334.3	10.37	20.0	1.3010	216.2	661.2	216.23	999.9	999.9	999.9	999.9
93.0	26265	120.7	0.32887	323.2	10.41	19.2	1.2833	215.6	667.0	215.60	999.9	999.9	999.9	99[illegible]
94.0	26568	115.2	0.33334	308.7	10.43	18.3	1.2625	215.4	675.7	215.44	999.9	999.9	999.9	99[illegible]
94.8	26849	113.8	0.33737	305.1	10.77	17.5	1.2430	215.3	684.0	215.31	999.9	999.9	999.9	999.9
95.0	26922	113.4	0.33841	304.2	10.86	17.3	1.2380	215.3	686.1	215.28	999.9	999.9	999.9	999.9
96.0	27258	104.3	0.34300	280.1	10.54	16.4	1.2148	215.0	695.7	214.96	999.9	999.9	999.9	999.9
97.0	27654	94.0	0.34792	252.2	10.11	15.4	1.1875	215.1	708.8	215.12	999.9	999.9	999.9	999.9
97.4	27819	92.1	0.34983	247.1	10.17	15.0	1.1761	215.3	714.7	215.26	999.9	999.9	999.9	999.9
98.0	28033	89.8	0.35229	240.6	10.26	14.5	1.1614	215.4	722.2	215.44	999.9	999.9	999.9	999.9
99.0	28437	86.8	0.35675	233.0	10.58	13.6	1.1335	215.1	734.4	215.12	999.9	999.9	999.9	999.9
100.0	28869	80.7	0.36128	216.1	10.53	12.7	1.1038	215.8	751.2	215.76	999.9	999.9	999.9	999.9
100.2	28969	79.8	0.36226	213.6	10.58	12.5	1.0969	215.8	754.9	215.84	999.9	999.9	999.9	999.9
101.0	29442	75.6	0.36687	201.9	10.80	11.6	1.0645	216.2	772.6	216.23	999.9	999.9	999.9	999.9
102.0	29720	69.4	0.36939	186.0	10.35	11.1	1.0453	215.3	778.9	215.28	999.9	999.9	999.9	999.9
103.0	30070	64.9	0.37233	173.9	10.24	10.5	1.0212	215.4	792.0	215.44	999.9	999.9	999.9	999.9
103.8	30377	61.0	0.37474	163.5	10.10	10.0	1.0000	215.4	803.1	215.44	999.9	999.9	999.9	999.9
104.0	30441	60.2	0.37523	161.3	10.07	9.9	0.9956	215.4	805.4	215.44	999.9	999.9	999.9	999.9
105.0	30903	52.4	0.37849	140.7	9.44	9.2	0.9638	215.1	821.2	215.12	999.9	999.9	999.9	999.9
106.0	31255	48.3	0.38071	129.6	9.21	8.7	0.9395	215.3	835.0	215.28	999.9	999.9	999.9	999.9
107.0	31628	45.8	0.38291	122.9	9.26	8.2	0.9138	215.1	848.7	215.12	999.9	999.9	999.9	999.9
107.3	31783	44.2	0.38376	118.7	9.15	8.0	0.9031	215.1	854.7	215.12	999.9	999.9	999.9	999.9
108.0	32106	41.0	0.38551	110.0	8.93	7.6	0.8806	215.1	867.3	215.12	999.9	999.9	999.9	999.9
109.0	32535	38.8	0.38765	103.8	9.06	7.1	0.8513	215.9	887.6	215.92	999.9	999.9	999.9	999.9
109.2	32624	38.3	0.38807	102.4	9.07	7.0	0.8451	216.0	891.7	216.04	999.9	999.9	999.9	999.9
110.0	32997	36.2	0.38982	96.6	9.10	6.6	0.8195	216.5	908.9	216.55	999.9	999.9	999.9	999.9
111.0	33496	34.2	0.39201	91.4	9.29	6.1	0.7853	216.1	927.6	216.07	999.9	999.9	999.9	999.9
111.2	33600	34.0	0.39245	90.8	9.38	6.0	0.7782	215.9	931.4	215.92	999.9	999.9	999.9	999.9
112.0	33924	33.2	0.39381	89.1	9.66	5.7	0.7559	215.4	943.0	215.44	999.9	999.9	999.9	999.9

STATION POKER FLAT LAUNCH DATE 22581 LAUNCH TIME 1900 GMT ECC SONDE 3A1490X

113.0 34384 31.7 0.39568 84.6 9.92 5.3 0.7243 216.4 967.0 216.39 999.9 999.9 999.9 999.9



POKER FLAT EOC

STATION PRIMROSE LAUNCH DATE 10681 LAUNCH TIME 1625 GMT ECC SONDE 3A1152X

SURFACE CONDITIONS						
PRESS	939.5 MB	003 = 31.0	TBOX CAL =	30.0 C	AT	73.0 ORD
TEMP	256.2 K	OIZ = 31.0	BASE CAL =	30.0 C	AT	73.1 ORD
HUMY	97.0 %	OZC = 62.1	HUMIDITY =	62.7 %	AT	46.0 ORD
		IO = 0.002				
		PS = 28.8				

	PROFILE	DOBSON
INTEGRATED OZONE	0.27740	
RESIDUAL OZONE	0.01999	
TOTAL OZONE	0.29738	0.30200

ADDITIONAL DOBSON INFORMATION

Interpolated Dobson		0.302
Stony Plain	@ 1946	0.299
Ft. Churchill	@ 1822	0.315

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	702	28.6	0.	64.4	0.05	939.5	2.9729	256.2	260.8	256.37	99.7	256.2	0.0011	4.0	170.0	3.9	-0.7
1.0	925	29.6	0.00068	66.1	0.05	912.0	2.9600	258.3	265.2	258.48	100.0	258.3	0.0013	3.8	175.6	3.8	-0.3
1.5	1026	33.3	0.00103	73.5	0.06	900.0	2.9542	261.3	269.3	261.55	92.8	258.6	0.0014	3.5	179.3	3.5	-0.0
2.0	1146	37.7	0.00145	82.2	0.07	886.0	2.9474	265.0	274.3	265.19	62.4	259.1	0.0014	3.2	184.4	3.2	0.2
3.0	1377	38.7	0.00235	83.9	0.07	860.0	2.9345	266.1	277.9	266.27	32.4	252.4	0.0008	0.6	175.2	0.6	-0.1
3.4	1468	38.9	0.00271	84.4	0.08	850.0	2.9294	265.9	278.5	266.03	41.8	254.7	0.0012	999.9	999.9	999.9	999.9
4.0	1616	39.2	0.00329	85.4	0.08	834.0	2.9212	265.4	279.5	265.63	57.1	258.4	0.0014	999.9	999.9	999.9	999.9
5.0	1861	42.8	0.00432	93.6	0.09	808.0	2.9074	264.2	280.8	264.47	61.6	258.2	0.0015	999.9	999.9	999.9	999.9
5.3	1937	42.1	0.00464	92.2	0.09	800.0	2.9031	263.8	281.1	263.98	61.7	257.8	0.0014	999.9	999.9	999.9	999.9
6.0	2093	40.7	0.00531	89.5	0.09	784.0	2.8943	262.8	281.7	263.00	61.9	256.9	0.0014	999.9	999.9	999.9	999.9
7.0	2333	37.1	0.00627	81.0	0.08	760.0	2.8808	264.7	286.3	264.75	20.3	245.9	0.0005	999.9	999.9	999.9	999.9
8.0	2570	32.4	0.00711	71.1	0.07	737.0	2.8675	262.8	286.7	262.92	34.9	250.3	0.0008	999.9	999.9	999.9	999.9
9.0	2813	32.4	0.00792	71.5	0.08	714.0	2.8537	261.4	287.8	261.50	41.1	250.8	0.0009	999.9	999.9	999.9	999.9
9.6	2964	34.0	0.00845	75.3	0.08	700.0	2.8451	260.8	288.8	261.02	53.1	253.1	0.0012	999.9	999.9	999.9	999.9
10.0	3063	35.1	0.00879	77.8	0.08	691.0	2.8395	260.5	289.5	260.71	60.9	254.5	0.0013	999.9	999.9	999.9	999.9
11.0	3299	33.5	0.00962	73.9	0.08	670.0	2.8261	261.4	293.0	261.59	63.0	255.8	0.0014	999.9	999.9	999.9	999.9
12.0	3555	31.8	0.01048	70.2	0.08	648.0	2.8116	261.8	296.3	262.06	70.5	257.5	0.0017	999.9	999.9	999.9	999.9
13.0	3820	32.3	0.01136	71.0	0.09	626.0	2.7966	262.2	299.8	262.60	93.0	261.3	0.0024	999.9	999.9	999.9	999.9
14.0	4094	30.6	0.01225	67.8	0.08	604.0	2.7810	261.1	301.5	261.42	86.7	259.3	0.0022	23.4	324.3	-19.0	13.6
14.2	4144	30.4	0.01240	67.4	0.08	600.0	2.7782	260.7	301.7	261.03	86.8	258.9	0.0021	23.3	323.5	-18.7	13.8
15.0	4376	29.5	0.01313	65.7	0.08	582.0	2.7649	259.0	302.3	259.27	87.1	257.3	0.0019	22.9	319.6	-17.4	14.8

STATION PRIMROSE LAUNCH DATE 10681 LAUNCH TIME 1625 GMT ECC SONDE 3A1152X

16.0	4667	27.4	0.01399	61.4	0.08	560.0	2.7482	257.2	303.5	257.43	84.4	255.1	0.0016	22.1	316.3	-15.9	15.3
17.0	4967	28.4	0.01487	64.2	0.09	538.0	2.7308	255.0	304.4	255.20	84.2	253.0	0.0014	21.3	314.0	-14.8	15.3
18.0	5278	27.9	0.01580	63.5	0.09	516.0	2.7126	253.5	306.2	253.67	75.6	250.3	0.0012	22.4	313.6	-15.4	16.2
18.7	5511	29.1	0.01651	66.4	0.10	500.0	2.6990	252.8	308.2	252.96	64.7	247.9	0.0009	25.3	314.1	-17.6	18.2
19.0	5601	29.5	0.01678	67.5	0.10	494.0	2.6937	252.5	308.9	252.68	60.6	246.9	0.0009	26.4	314.2	-18.4	18.9
20.0	5921	25.8	0.01773	59.4	0.09	473.0	2.6749	251.1	310.9	251.19	57.8	245.0	0.0008	30.8	313.0	-21.0	22.5
21.0	6221	23.7	0.01853	55.0	0.09	454.0	2.6571	248.7	311.6	248.77	59.3	243.0	0.0007	32.4	311.8	-21.6	24.2
22.0	6547	22.0	0.01935	51.7	0.08	434.0	2.6375	246.1	312.4	246.23	59.3	240.6	0.0006	31.5	313.0	-21.5	23.0
23.0	6867	22.1	0.02013	52.6	0.09	415.0	2.6180	243.0	312.4	243.03	59.1	237.6	0.0004	30.7	312.1	-20.6	22.8
23.8	7127	21.2	0.02075	50.8	0.09	400.0	2.6021	241.0	313.1	241.03	58.8	235.7	0.0004	30.8	311.1	-20.2	23.2
24.0	7181	21.0	0.02088	50.5	0.09	397.0	2.5988	240.6	313.2	240.63	58.8	235.3	0.0004	30.8	310.9	-20.1	23.3
25.0	7506	21.0	0.02165	50.8	0.09	379.0	2.5786	238.3	314.4	238.35	65.7	234.2	0.0003	32.6	307.4	-19.8	25.9
26.0	7843	17.6	0.02239	43.0	0.08	361.0	2.5575	235.7	315.4	235.77	57.6	230.5	0.0002	35.3	302.5	-18.9	29.7
26.6	8055	17.5	0.02282	43.2	0.08	350.0	2.5441	234.1	315.9	234.09				35.0	302.2	-18.6	29.6
27.0	8174	17.5	0.02306	43.4	0.08	344.0	2.5366	233.1	316.3	233.14				34.8	302.0	-18.5	29.5
28.0	8476	16.9	0.02366	42.4	0.09	329.0	2.5172	230.6	316.9	230.64				31.8	302.4	-17.1	26.9
29.0	8767	16.4	0.02424	41.5	0.09	315.0	2.4983	227.8	316.9	227.79				32.5	303.9	-18.2	27.0
30.0	9046	16.4	0.02478	41.9	0.09	302.0	2.4800	225.5	317.4	225.45				35.9	305.6	-20.9	29.2
30.2	9089	16.2	0.02486	41.5	0.09	300.0	2.4771	225.1	317.5	225.07				36.6	305.3	-21.2	29.9
31.0	9334	15.2	0.02533	39.3	0.09	289.0	2.4609	222.9	317.8	222.90				40.4	303.9	-22.5	33.5
32.0	9632	14.6	0.02587	38.3	0.09	276.0	2.4409	220.4	318.4	220.41				45.2	301.7	-23.7	38.4
33.0	9942	14.0	0.02641	36.9	0.09	263.0	2.4200	218.8	320.5	218.81				49.6	295.9	-21.7	44.6
34.0	10239	11.7	0.02689	31.2	0.08	251.0	2.3997	216.7	321.6	216.66				56.2	291.6	-20.7	52.2
34.1	10264	11.7	0.02692	31.2	0.08	250.0	2.3979	216.5	321.7	216.50				56.5	291.5	-20.7	52.5
35.0	10548	11.7	0.02734	31.5	0.08	239.0	2.3784	214.8	323.3	214.77				60.2	290.7	-21.3	56.3
36.0	10842	11.1	0.02776	30.2	0.08	228.0	2.3579	212.6	324.4	212.64				56.1	290.1	-19.3	52.7
37.0	11177	9.4	0.02820	25.8	0.07	216.0	2.3345	211.0	326.9	210.98				49.1	289.6	-16.5	46.2
38.0	11438	11.7	0.02856	32.3	0.09	207.0	2.3160	209.3	328.2	209.25				50.7	290.8	-18.0	47.4
38.9	11648	16.6	0.02895	45.9	0.14	200.0	2.3010	209.3	331.4	209.25				54.6	293.5	-21.8	50.1
39.0	11679	17.4	0.02901	47.9	0.14	199.0	2.2989	209.3	331.9	209.25				55.2	293.8	-22.3	50.5
40.0	11962	29.5	0.02986	81.1	0.26	190.0	2.2788	209.6	336.9	209.64				47.4	294.9	-20.0	43.0
41.0	12228	45.4	0.03113	123.0	0.41	182.0	2.2601	213.4	347.2	213.36				40.3	301.6	-21.1	34.3
42.0	12473	53.7	0.03267	145.2	0.51	175.0	2.2430	213.7	351.7	213.72				35.2	304.2	-19.8	29.1
43.0	12729	50.6	0.03435	135.8	0.50	168.0	2.2253	215.1	358.1	215.12				34.1	306.5	-20.3	27.4
44.0	12957	48.5	0.03577	130.7	0.50	162.0	2.2095	214.2	360.4	214.25				34.1	305.5	-19.8	27.8
45.0	13277	46.8	0.03767	124.1	0.50	154.0	2.1875	217.7	371.5	217.66				32.3	302.9	-17.6	27.2
45.6	13444	51.2	0.03873	135.5	0.57	150.0	2.1761	217.9	374.8	217.94				35.9	302.0	-19.1	30.5
46.0	13573	54.5	0.03953	144.3	0.61	147.0	2.1673	218.2	377.3	218.15				38.7	301.5	-20.2	33.0
47.0	13885	60.6	0.04175	159.6	0.72	140.0	2.1461	219.5	384.9	219.45				38.0	303.0	-20.7	31.9
48.0	14213	56.6	0.04412	149.6	0.70	133.0	2.1239	218.3	388.5	218.32				33.2	305.2	-19.1	27.1

STATION PRIMROSE LAUNCH DATE 10681 LAUNCH TIME 1625 GMT ECC SONDE 3A1152X

49.0	14506	55.0	0.04615	146.6	0.72	127.0	2.1038	216.5	390.4	216.49	34.1	308.5	-21.2	26.7
49.3	14606	51.1	0.04677	136.1	0.68	125.0	2.0969	216.6	392.4	216.60	32.2	309.7	-20.6	24.8
50.0	14813	43.1	0.04803	114.6	0.59	121.0	2.0828	216.8	396.4	216.82	28.4	312.7	-19.3	20.9
51.0	15080	35.0	0.04933	93.5	0.50	116.0	2.0645	216.1	400.0	216.15	35.1	310.0	-22.5	26.9
52.0	15302	26.5	0.05018	70.5	0.39	112.0	2.0492	216.7	405.0	216.66	30.3	308.0	-18.7	23.8
53.0	15532	31.8	0.05101	85.0	0.49	108.0	2.0334	216.0	407.9	215.98	26.1	308.3	-16.2	20.5
54.0	15770	35.5	0.05201	95.2	0.57	104.0	2.0170	215.1	410.7	215.12	28.8	307.9	-17.7	22.7
55.0	16016	45.9	0.05327	123.4	0.76	100.0	2.0000	214.8	414.7	214.77	31.0	308.2	-19.2	24.4
56.0	16207	55.4	0.05449	148.5	0.95	97.0	1.9868	215.5	419.6	215.47	38.7	307.2	-23.4	30.8
57.0	16405	68.0	0.05602	181.3	1.20	94.0	1.9731	216.5	425.4	216.49	44.5	306.1	-26.2	35.9
58.0	16679	77.7	0.05852	208.6	1.43	90.0	1.9542	214.9	427.7	214.95	40.3	305.2	-23.2	32.9
59.0	16964	79.1	0.06133	214.0	1.52	86.0	1.9345	213.4	430.1	213.36	26.4	308.6	-16.5	20.7
60.0	17261	83.5	0.06439	226.6	1.69	82.0	1.9138	212.8	434.9	212.82	23.7	312.5	-16.0	17.4
60.7	17415	98.0	0.06623	264.6	2.03	80.0	1.9031	213.9	440.1	213.88	22.6	314.1	-15.8	16.3
61.0	17494	105.4	0.06717	283.9	2.21	79.0	1.8976	214.4	442.8	214.42	22.1	315.0	-15.6	15.7
62.0	17738	127.7	0.07073	340.8	2.78	76.0	1.8808	216.3	451.7	216.32	16.9	317.4	-12.4	11.4
63.0	17993	134.2	0.07489	357.8	3.05	73.0	1.8633	216.5	457.3	216.49	22.0	311.6	-14.6	16.5
64.0	18169	138.8	0.07788	370.7	3.24	71.0	1.8513	216.1	460.2	216.15	24.7	310.0	-15.9	18.9
64.3	18258	138.1	0.07942	369.5	3.27	70.0	1.8451	215.9	461.5	215.87	25.5	309.4	-16.2	19.7
65.0	18441	136.9	0.08257	367.0	3.34	68.0	1.8325	215.3	464.1	215.29	27.1	308.3	-16.8	21.2
66.0	18724	136.4	0.08744	368.7	3.48	65.0	1.8129	213.5	466.3	213.54	28.1	308.3	-17.4	22.0
67.0	19019	134.0	0.09248	362.7	3.58	62.0	1.7924	213.4	472.2	213.36	24.3	308.1	-15.0	19.1
68.0	19224	129.8	0.09589	350.5	3.58	60.0	1.7782	213.7	477.5	213.72	20.9	308.0	-12.9	16.5
69.0	19436	126.9	0.09932	341.6	3.62	58.0	1.7634	214.4	483.7	214.42	20.6	309.0	-13.0	16.0
70.0	19679	126.0	0.10318	337.8	3.74	55.8	1.7466	215.3	491.1	215.29	27.3	308.1	-16.8	21.5
71.0	20002	111.9	0.10801	301.8	3.50	53.0	1.7243	214.1	495.5	214.07	30.3	307.4	-18.4	24.0
72.0	20303	98.5	0.11202	267.7	3.23	50.5	1.7033	212.5	498.6	212.46	30.8	306.4	-18.3	24.8
72.2	20364	97.0	0.11277	264.2	3.21	50.0	1.6990	212.0	499.0	212.04	29.7	306.5	-17.7	23.9
73.0	20578	91.9	0.11537	251.9	3.15	48.3	1.6839	210.6	500.6	210.60	25.7	306.8	-15.4	20.6
74.0	20825	96.7	0.11836	265.2	3.45	46.4	1.6665	210.6	506.3	210.60	21.5	306.6	-12.8	17.2
75.0	21041	97.2	0.12104	266.5	3.60	44.8	1.6513	210.6	511.4	210.60	21.4	303.7	-11.9	17.8
76.0	21251	122.5	0.12399	333.3	4.69	43.3	1.6365	212.3	520.6	212.27	19.8	299.5	-9.7	17.2
77.0	21500	114.7	0.12774	311.3	4.57	41.6	1.6191	212.8	527.9	212.82	23.0	298.3	-10.9	20.3
78.0	21744	120.9	0.13139	325.2	5.01	40.0	1.6021	212.6	533.4	212.64	25.1	298.8	-12.1	22.0
79.0	22031	129.4	0.13594	350.8	5.61	38.2	1.5821	213.0	541.4	213.00	22.2	300.4	-11.2	19.1
80.0	22332	127.2	0.14082	344.8	5.79	36.4	1.5611	213.0	548.9	213.00	26.6	304.2	-14.9	22.0
81.0	22575	122.2	0.14468	333.8	5.78	35.0	1.5441	211.3	550.8	211.35	35.1	305.2	-20.2	28.6
82.0	22827	121.5	0.14861	332.8	5.99	33.6	1.5263	210.8	555.8	210.79	35.6	305.7	-20.7	28.9
83.0	23108	123.4	0.15302	339.1	6.37	32.1	1.5065	210.0	561.0	210.03	33.4	305.7	-19.5	27.1
84.0	23402	125.8	0.15772	346.2	6.81	30.6	1.4857	209.8	568.2	209.83	37.8	305.0	-21.7	31.0

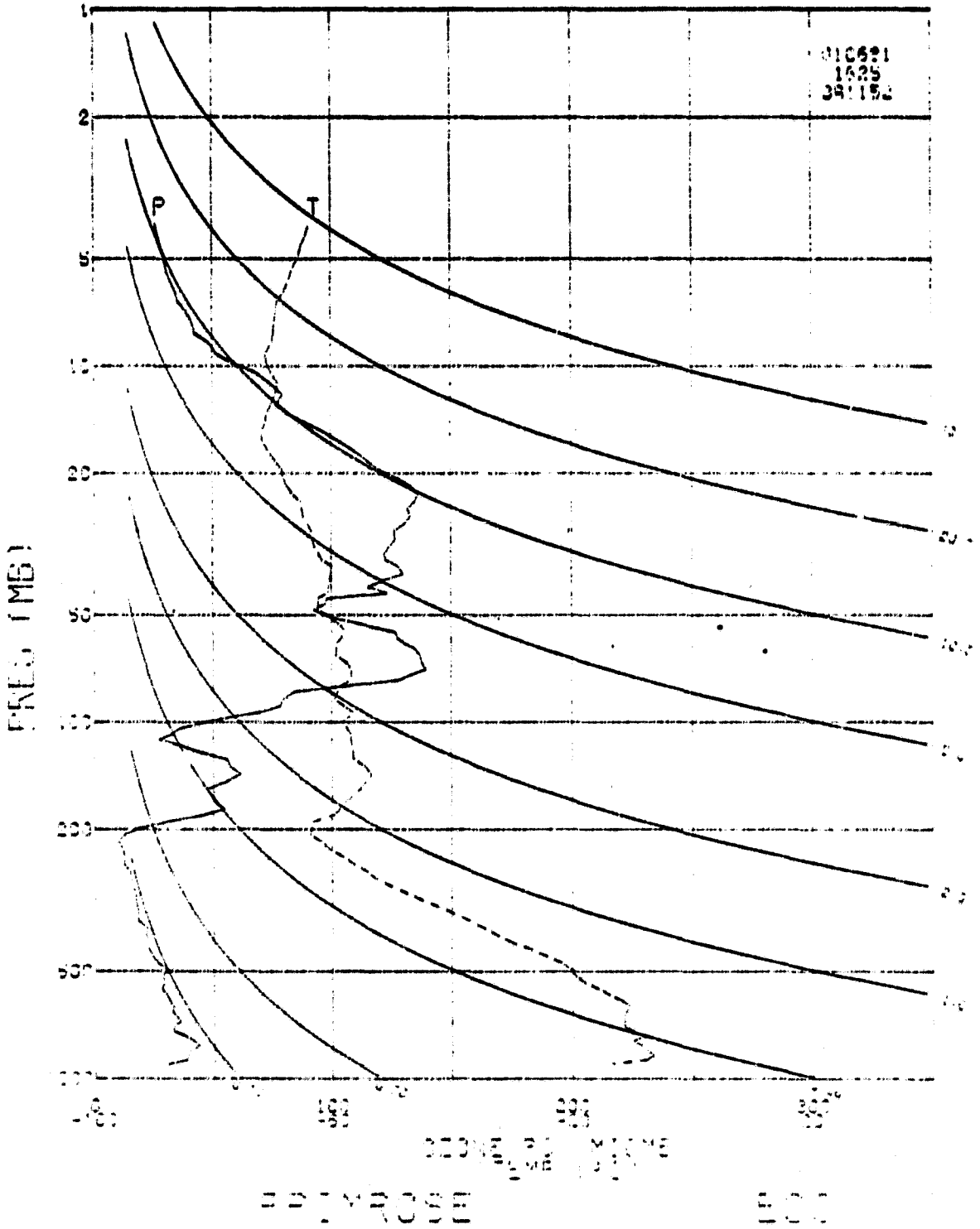
STATION PRIMROSE LAUNCH DATE 10681 LAUNCH TIME 1625 GMT ECC SONDE 3A1152X

84.4	23523	125.7	0.15969	346.2	6.95	30.0	1.4771	209.7	571.1	209.69	38.7	304.4	-21.8	31.9
85.0	23731	125.5	0.16305	346.1	7.17	29.0	1.4624	209.4	576.0	209.45	40.1	303.3	-22.0	33.5
86.0	24034	130.0	0.16804	358.9	7.80	27.6	1.4409	209.1	583.1	209.06	40.1	300.8	-20.5	34.4
87.0	24328	132.5	0.17303	367.6	8.35	26.3	1.4200	208.1	588.4	208.06	39.1	299.2	-19.1	34.1
88.0	24612	131.3	0.17789	365.1	8.67	25.1	1.3997	207.7	595.1	207.66	29.1	295.5	-12.5	26.3
88.1	24636	131.6	0.17831	365.8	8.72	25.0	1.3979	207.7	595.8	207.66	27.8	294.9	-11.7	25.2
89.0	24884	134.2	0.18258	373.1	9.26	24.0	1.3802	207.7	602.8	207.66	14.8	282.8	-3.3	14.4
90.0	25168	135.8	0.18758	379.8	9.83	22.9	1.3598	206.4	607.3	206.43	20.6	290.4	-7.2	19.3
91.0	25492	132.6	0.19328	372.9	10.13	21.7	1.3365	205.4	613.5	205.37	36.6	297.1	-16.6	32.6
92.0	25804	127.1	0.19861	358.5	10.22	20.6	1.3139	204.7	620.8	204.72	45.8	299.3	-22.5	40.0
92.5	25980	122.8	0.20149	346.6	10.17	20.0	1.3010	204.6	625.7	204.61	51.0	299.9	-25.4	44.2
93.0	26132	119.2	0.20395	336.5	10.13	19.5	1.2900	204.5	629.9	204.50	55.4	300.3	-28.0	47.8
94.0	26478	114.3	0.20929	324.3	10.29	18.4	1.2648	203.4	637.0	203.39	48.0	299.6	-23.7	41.7
94.8	26775	110.0	0.21371	313.7	10.42	17.5	1.2430	202.5	643.2	202.46	40.9	298.1	-19.3	36.1
95.0	26844	109.1	0.21473	311.3	10.45	17.3	1.2380	202.3	644.6	202.25	39.3	297.6	-18.2	34.8
96.0	27195	102.8	0.21970	295.0	10.46	16.3	1.2122	201.3	652.6	201.31	40.6	297.0	-18.4	36.1
97.0	27568	96.4	0.22468	276.9	10.44	15.3	1.1847	201.1	663.8	201.07	42.2	298.0	-19.8	37.2
97.3	27684	93.9	0.22613	269.2	10.36	15.0	1.1761	201.3	668.3	201.30	44.2	298.6	-21.2	38.8
98.0	27925	88.6	0.22911	253.4	10.19	14.4	1.1584	201.8	677.7	201.78	48.2	299.7	-23.9	41.9
99.0	28263	80.9	0.23293	231.2	9.86	13.6	1.1335	202.0	689.7	202.02	50.8	300.6	-25.9	43.7
100.0	28622	76.2	0.23668	217.0	9.86	12.8	1.1072	202.7	704.2	202.71	47.2	298.5	-22.5	41.5
100.4	28762	77.0	0.23813	219.2	10.22	12.5	1.0969	203.0	709.9	202.96	45.8	296.9	-20.7	40.8
101.0	29005	78.5	0.24062	222.9	10.84	12.0	1.0792	203.4	719.7	203.39	43.4	294.1	-17.7	39.6
102.0	29416	73.7	0.24477	208.8	10.91	11.2	1.0492	203.8	735.6	203.84	48.7	291.2	-17.6	45.4
103.0	29857	67.1	0.24888	191.0	10.69	10.4	1.0170	202.7	747.2	202.71	63.8	292.3	-24.2	59.0
103.7	30089	60.7	0.25081	173.4	10.05	10.0	1.0000	202.3	753.9	202.25	67.5	293.4	-26.8	61.9
104.0	30209	57.5	0.25180	164.2	9.72	9.8	0.9912	202.0	757.4	202.02	69.4	294.0	-28.2	63.4
105.0	30582	50.8	0.25450	145.3	9.15	9.2	0.9638	201.8	770.3	201.78	62.1	294.0	-25.2	56.7
106.0	30981	47.9	0.25713	136.1	9.22	8.6	0.9345	202.9	789.8	202.94	50.5	294.3	-20.8	46.1
107.0	31337	42.2	0.25925	119.8	8.63	8.1	0.9085	203.2	804.3	203.17	35.7	292.8	-13.8	32.9
107.2	31410	41.9	0.25966	119.2	8.69	8.0	0.9031	203.2	807.4	203.21	34.8	292.5	-13.3	32.1
108.0	31795	40.8	0.26177	115.8	9.01	7.5	0.8751	203.4	823.1	203.39	30.2	290.7	-10.7	28.3
109.0	32206	38.4	0.26393	108.9	9.09	7.0	0.8451	203.6	840.4	203.62	40.7	295.5	-17.5	36.8
110.0	32557	35.1	0.26563	99.3	8.80	6.6	0.8195	203.8	855.6	203.84	53.5	295.4	-22.9	48.4
111.0	32931	34.1	0.26734	96.0	9.10	6.2	0.7924	204.9	875.7	204.94	68.6	295.5	-29.6	61.9
111.4	33127	33.1	0.26819	93.2	9.14	6.0	0.7782	205.3	885.5	205.27	71.1	295.3	-30.4	64.3
112.0	33436	31.7	0.26952	88.8	9.20	5.7	0.7559	205.8	900.8	205.80	75.0	295.0	-31.7	68.0
113.0	33875	29.8	0.27128	83.3	9.32	5.3	0.7243	206.4	922.5	206.43	63.4	291.9	-23.7	58.8
113.7	34227	29.1	0.27263	81.0	9.63	5.0	0.6990	207.2	941.5	207.19	55.2	289.0	-18.0	52.2
114.0	34350	28.8	0.27310	80.2	9.74	4.9	0.6902	207.5	948.1	207.46	52.4	287.8	-16.0	49.9

STATION PRIMROSE LAUNCH DATE 10681 LAUNCH TIME 1625 GMT ECC SONDE 3A1152X

115.0	34734	27.3	0.27450	75.9	9.85	4.6	0.6628	207.9	967.3	207.86	39.4	280.9	-7.4	38.7
116.0	35145	26.3	0.27592	72.8	10.14	4.3	0.6335	208.7	989.9	208.66	42.4	279.7	-7.2	41.8
117.0	35587	25.3	0.27740	69.8	10.48	4.0	0.6021	209.3	1013.4	209.25	999.9	999.9	999.9	999.9

ORIGINAL PAGE IS
OF POOR QUALITY



CALIFORNIA COMPUTER PRODUCTS, INC. ANAHEIM, CALIFORNIA CHART NO. 400

STATION PRIMROSE LAUNCH DATE 12281 LAUNCH TIME 1535 GMT ECC SONDE 3A1157X

SURFACE CONDITIONS
PRESS 929.7 MB
TEMP 268.6 K
HUMY 100.0 %

OO3 = 31.2
OIZ = 31.2
OZC = 62.2
IO = 0.002
PS = 31.5

TBOX CAL = 30.0 C AT 73.8 ORD
BASE CAL = 30.0 C AT 73.3 ORD
HUMIDITY = 62.7 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.30914	
RESIDUAL OZONE	0.01943	
TOTAL OZONE	0.32857	0.35000

ADDITIONAL DOBSON INFORMATION

Interpolated Dobson		0.350
Stony Plain	@1952	0.342
Ft. Churchill	@1828	0.382

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	702	21.1	0.	45.4	0.04	929.7	2.9683	268.4	274.1	268.89	100.0	268.4	0.0029	4.0	180.0	4.0	0.
1.0	891	28.9	0.00047	59.6	0.05	908.0	2.9581	279.4	287.2	280.13	63.8	273.1	0.0042	3.0	160.6	2.8	-1.0
1.3	963	32.4	0.00070	66.5	0.06	900.0	2.9542	280.7	289.3	281.28	48.9	269.1	0.0028	3.2	157.9	3.0	-1.2
2.0	1102	39.0	0.00115	79.6	0.07	885.0	2.9469	283.2	293.2	283.48	20.6	261.6	0.0018	3.6	153.6	3.2	-1.6
3.0	1311	37.8	0.00192	77.1	0.07	863.0	2.9360	283.2	295.3	283.49	20.6	261.6	0.0018	4.5	155.6	4.1	-1.9
3.6	1436	38.2	0.00237	78.1	0.07	850.0	2.9294	282.4	295.8	282.69				4.8	163.5	4.6	-1.4
4.0	1524	38.5	0.00269	78.9	0.08	841.0	2.9248	281.9	296.2	282.13				5.1	168.4	5.0	-1.0
5.0	1742	39.3	0.00351	80.6	0.08	819.0	2.9133	281.4	297.9	281.69	23.0	261.5	0.0019	5.1	190.1	5.0	0.9
5.9	1934	34.5	0.00419	71.2	0.07	800.0	2.9031	279.7	298.1	280.26	45.1	268.5	0.0035	6.3	207.1	5.6	2.8
6.0	1945	34.2	0.00422	70.7	0.07	799.0	2.9025	279.6	298.1	280.19	46.3	268.9	0.0035	6.3	207.8	5.6	3.0
7.0	2173	32.5	0.00496	67.3	0.07	777.0	2.8904	278.9	299.7	279.44	43.1	267.3	0.0032	8.4	214.9	6.9	4.8
8.0	2385	34.5	0.00565	71.7	0.08	757.0	2.8791	277.5	300.5	277.96	37.4	264.3	0.0026	10.0	221.7	7.4	6.6
9.0	2602	33.2	0.00636	69.3	0.07	737.0	2.8675	276.4	301.5	276.79	39.6	264.0	0.0026	10.7	228.4	7.1	8.0
10.0	2813	31.2	0.00703	65.6	0.07	718.0	2.8561	274.5	301.8	275.05	51.9	265.7	0.0030	11.6	226.7	7.9	8.4
10.9	3016	27.4	0.00761	57.8	0.06	700.0	2.8451	273.5	302.8	273.87	43.6	262.5	0.0024	13.0	222.1	9.7	8.7
11.0	3028	27.2	0.00764	57.4	0.06	699.0	2.8445	273.4	302.9	273.80	43.2	262.4	0.0024	13.1	221.9	9.8	8.8
12.0	3272	29.2	0.00832	61.9	0.07	678.0	2.8312	272.1	304.1	272.44	35.8	258.9	0.0019	13.0	219.7	10.0	8.3
13.0	3510	27.9	0.00900	59.3	0.07	658.0	2.8182	271.0	305.5	271.25	27.2	254.7	0.0013	12.0	221.5	9.0	8.0
14.0	3754	29.9	0.00970	63.9	0.08	638.0	2.8048	269.6	306.6	269.87	30.6	254.8	0.0014	12.7	226.5	8.7	9.2
15.0	4005	26.7	0.01041	57.5	0.07	618.0	2.7910	268.3	307.8	268.45	27.3	252.3	0.0012	14.5	226.5	10.0	10.5
16.0	4236	29.0	0.01106	62.6	0.08	600.0	2.7782	267.2	309.2	267.31				16.3	228.4	10.8	12.2

STATION PRIMROSE LAUNCH DATE 12281 LAUNCH TIME 1535 GMT ECC SONDE 3A'157X

17.0	4500	27.0	0.01181	58.7	0.08	580.0	2.7634	265.7	310.5	265.90	28.8	250.7	0.0011	17.3	230.4	11.0	13.4
18.0	4759	27.0	0.01252	58.8	0.08	561.0	2.7490	265.0	312.6	265.14	25.3	248.6	0.0009	16.8	229.3	10.9	12.7
19.0	5025	24.9	0.01322	54.9	0.08	542.0	2.7340	262.4	312.6	262.60	44.1	252.6	0.0014	17.3	232.6	10.5	13.8
20.0	5313	20.1	0.01389	44.5	0.06	522.0	2.7177	260.5	313.7	260.79	58.7	254.1	0.0016	17.9	240.0	9.0	15.5
21.0	5595	22.2	0.01451	49.5	0.07	503.0	2.7016	258.6	314.7	258.75	46.4	249.6	0.0011	16.5	251.8	5.2	15.7
21.2	5640	22.2	0.01461	49.6	0.07	500.0	2.6990	258.2	314.8	258.42	48.1	249.7	0.0012	16.7	252.8	4.9	15.9
22.0	5870	22.2	0.01515	49.9	0.08	485.0	2.6857	256.5	315.4	256.69	57.0	250.0	0.0012	17.4	257.8	3.7	17.0
23.0	6169	19.4	0.01580	44.0	0.07	466.0	2.6684	254.5	316.5	254.63	58.4	248.3	0.0011	17.0	258.7	3.3	16.6
24.0	6461	16.6	0.01636	37.9	0.06	448.0	2.6513	252.7	317.9	252.86	60.2	247.0	0.0010	17.2	260.1	3.0	16.9
25.0	6763	19.3	0.01694	44.6	0.07	430.0	2.6335	250.2	318.4	250.29	60.6	244.7	0.0008	19.3	262.5	2.5	19.2
26.0	7075	18.6	0.01758	43.3	0.07	412.0	2.6149	248.3	319.9	248.41	58.0	242.5	0.0007	18.6	265.7	1.4	18.7
26.8	7288	19.2	0.01803	45.0	0.08	400.0	2.6021	246.2	319.9	246.28	56.2	240.1	0.0006	19.8	268.1	0.7	19.7
27.0	7343	19.3	0.01814	45.4	0.08	397.0	2.5988	245.7	319.9	245.73	55.7	239.5	0.0006	20.0	268.7	0.5	20.0
28.0	7656	17.2	0.01877	40.9	0.08	380.0	2.5798	243.3	320.7	243.34	52.2	236.7	0.0004	22.8	273.2	-1.3	22.7
29.0	7941	16.5	0.01931	39.6	0.08	365.0	2.5623	240.9	321.5	240.92	34.6	230.5	0.0002	23.8	276.0	-2.5	23.7
30.0	8235	15.8	0.01984	38.4	0.07	350.0	2.5441	238.1	321.4	238.13	45.0	230.4	0.0002	24.7	273.6	-1.6	24.6
31.0	8559	13.0	0.02037	32.0	0.06	334.0	2.5237	235.1	321.7	235.17	57.4	229.9	0.0002	26.0	272.5	-1.2	25.9
32.0	8852	13.0	0.02081	32.3	0.07	320.0	2.5051	232.7	322.2	232.67				27.2	272.9	-1.4	27.2
33.0	9154	12.3	0.02126	30.9	0.07	306.0	2.4857	229.6	322.1	229.61				27.5	274.3	-2.1	27.4
33.5	9286	12.3	0.02145	31.1	0.07	300.0	2.4771	228.6	322.4	228.57				27.9	277.6	-3.7	27.7
34.0	9444	12.3	0.02168	31.2	0.07	293.0	2.4669	227.3	322.8	227.33				28.6	281.3	-5.6	28.0
35.0	9744	9.5	0.02207	24.3	0.06	280.0	2.4472	224.5	323.0	224.55				33.7	283.1	-7.6	32.8
36.0	10030	9.5	0.02240	24.6	0.06	268.0	2.4281	222.3	323.8	222.28				34.4	282.6	-7.5	33.6
37.0	10301	10.1	0.02272	26.6	0.07	257.0	2.4099	219.8	324.0	219.79				34.2	284.1	-8.3	33.1
37.6	10477	10.1	0.02294	26.8	0.07	250.0	2.3979	218.0	324.0	218.05				37.7	281.1	-7.2	37.0
38.0	10580	10.1	0.02307	26.9	0.07	246.0	2.3909	217.0	324.0	217.03				39.9	279.6	-6.6	39.3
39.0	10896	10.1	0.02347	27.1	0.07	234.0	2.3692	214.5	324.8	214.48				41.9	278.3	-6.0	41.4
40.0	11196	10.0	0.02385	27.3	0.07	223.0	2.3483	212.2	325.8	212.17				43.6	281.8	-8.9	42.6
41.0	11538	13.5	0.02437	36.9	0.11	211.0	2.3243	210.9	328.9	210.88				38.0	288.1	-11.8	36.1
42.0	11837	16.9	0.02495	46.3	0.14	201.0	2.3032	210.7	333.2	210.69				28.3	292.7	-10.9	26.1
42.1	11867	17.2	0.02502	47.2	0.14	200.0	2.3010	210.6	333.5	210.59				27.9	291.8	-10.4	25.9
43.0	12183	20.4	0.02578	56.2	0.18	190.0	2.2788	209.6	336.8	209.55				24.0	280.1	-4.2	23.6
44.0	12514	21.1	0.02666	58.2	0.19	180.0	2.2553	209.0	341.1	208.97				25.9	269.4	0.3	25.9
45.0	12795	37.2	0.02770	100.0	0.36	172.0	2.235[illegible]	214.5	354.7	214.48				31.3	271.4	-0.7	31.3
46.0	13135	34.5	0.02922	91.5	0.35	163.0	2.2122	217.9	365.8	217.86				28.6	283.3	-6.6	27.8
47.0	13374	40.3	0.03033	106.8	0.43	157.0	2.1959	217.9	369.8	217.86				22.4	288.0	-6.9	21.3
47.9	13663	39.0	0.03176	104.0	0.43	150.0	2.1761	216.8	372.9	216.85				21.8	271.4	-0.6	21.8
48.0	13706	38.9	0.03196	103.5	0.43	149.0	2.1732	216.7	373.3	216.70				21.8	269.0	0.4	21.8
49.0	14056	31.0	0.03349	82.3	0.36	141.0	2.1492	217.5	380.7	217.53				25.5	263.4	2.9	25.3
50.0	14380	28.9	0.03469	76.6	0.36	134.0	2.1271	217.9	386.9	217.86				25.9	274.3	-1.9	25.9

STATION PRIMROSE LAUNCH DATE 12281 LAUNCH TIME 1535 GMT ECC SONDE 3A1157X

51.0	14721	28.9	0.03591	76.8	0.38	127.0	2.1038	217.4	392.0	217.36	20.9	286.2	-5.8	20.1
51.3	14821	30.2	0.03630	80.4	0.40	125.0	2.0969	216.9	392.9	216.89	19.4	285.9	-5.3	18.6
52.0	15080	33.5	0.03731	9.7	0.46	120.0	2.0792	215.7	395.3	215.69	15.4	284.9	-4.0	14.9
53.0	15402	32.2	0.03864	86.9	0.47	114.0	2.0569	214.0	397.9	213.96	17.3	283.4	-4.8	16.9
54.0	15742	44.4	0.04027	118.4	0.68	108.0	2.0334	216.7	409.3	216.70	11.4	309.3	-7.2	8.8
55.0	15981	55.8	0.04176	148.9	0.89	104.0	2.0170	216.4	413.1	216.36	7.6	333.9	-6.8	3.3
55.8	16228	60.2	0.04358	161.6	1.00	100.0	2.0000	215.0	415.1	215.00	13.3	292.4	-5.1	12.3
56.0	16292	61.3	0.04404	164.9	1.03	99.0	1.9956	214.7	415.6	214.66	15.3	287.5	-4.6	14.6
57.0	16684	73.4	0.04736	197.9	1.31	93.0	1.9685	214.1	422.1	214.13	18.4	290.5	-6.4	17.2
58.0	16959	108.6	0.05052	292.8	2.02	89.0	1.9494	214.1	427.4	214.13	13.4	296.1	-5.9	12.0
59.0	17250	145.4	0.05513	383.5	2.84	85.0	1.9294	219.0	442.9	218.99	11.8	272.7	-0.6	11.8
60.0	17480	131.4	0.05905	345.1	2.66	82.0	1.9138	219.9	449.4	219.95	14.8	272.0	-0.5	14.8
60.5	17638	113.9	0.06127	298.4	2.35	80.0	1.9031	220.5	453.7	220.49	12.4	290.4	-4.3	11.6
61.0	17802	95.9	0.06354	250.5	2.04	78.0	1.8921	221.0	458.2	221.05	11.6	314.7	-8.2	8.3
62.0	18056	97.6	0.06653	254.8	2.16	75.0	1.8751	221.2	463.7	221.20	11.8	342.6	-11.2	3.5
63.0	18409	93.6	0.07067	246.4	2.19	71.0	1.8513	219.5	467.3	219.47	10.7	322.3	-8.4	6.5
63.3	18500	92.6	0.07170	243.8	2.19	70.0	1.8451	219.4	469.0	219.37	9.8	326.1	-8.2	5.5
64.0	18686	90.6	0.07381	238.7	2.21	68.0	1.8325	219.2	472.4	219.15	8.3	336.1	-7.6	3.3
65.0	18976	94.9	0.07711	249.1	2.42	65.0	1.8129	219.9	480.3	219.95	10.8	323.3	-8.6	6.4
66.0	19280	103.7	0.08081	272.6	2.77	62.0	1.7924	219.6	486.1	219.63	13.0	312.4	-8.8	9.6
66.7	19490	118.4	0.08378	311.0	3.28	60.0	1.7782	219.8	491.2	219.84	12.3	312.1	-8.2	9.1
67.0	19599	125.9	0.08531	330.6	3.54	59.0	1.7709	219.9	493.7	219.95	11.9	311.9	-8.0	8.9
68.0	19935	146.8	0.09092	384.8	4.34	56.0	1.7482	220.3	501.9	220.27	12.6	315.9	-9.0	8.7
69.0	20170	167.0	0.09543	436.2	5.12	54.0	1.7324	221.0	508.9	221.05	11.5	331.1	-10.0	5.5
70.0	20414	187.1	0.10070	486.7	5.96	52.0	1.7160	222.0	516.6	221.98	11.9	314.2	-8.3	8.6
71.0	20669	190.0	0.10653	492.9	6.30	50.0	1.6990	222.6	523.9	222.59	11.8	315.5	-8.4	8.3
72.0	20935	194.2	0.11272	503.8	6.70	48.0	1.6812	222.6	530.0	222.59	9.2	352.4	-9.1	1.2
73.0	21072	194.5	0.11595	500.9	6.86	47.0	1.6721	224.3	537.2	224.25	8.5	329.9	-7.3	4.2
74.0	21357	202.9	0.12277	522.8	7.47	45.0	1.6532	224.1	543.6	224.10	12.7	308.2	-7.8	10.0
75.0	21655	207.4	0.13013	534.4	7.99	43.0	1.6335	224.1	550.7	224.10	14.1	310.0	-9.1	10.8
76.0	21967	197.3	0.13774	509.3	7.97	41.0	1.6128	223.7	557.1	223.65	12.0	325.2	-9.9	6.9
77.0	22128	196.1	0.14157	508.3	8.12	40.0	1.6021	222.7	558.7	222.74	16.6	330.0	-14.4	8.3
78.0	22463	197.3	0.14953	509.4	8.61	38.0	1.5798	223.7	569.3	223.65	19.2	330.8	-16.7	9.4
79.0	22638	201.0	0.15372	516.8	9.00	37.0	1.5682	224.5	576.0	224.55	14.5	337.7	-13.4	5.5
80.0	23004	199.1	0.16250	510.3	9.43	35.0	1.5441	225.3	587.1	225.29	13.2	339.1	-12.4	4.7
81.0	23195	194.6	0.16700	497.1	9.48	34.0	1.5315	226.0	593.9	226.02	14.5	331.9	-12.8	6.8
82.0	23596	186.4	0.17611	476.1	9.65	32.0	1.5051	226.0	604.3	226.02	15.0	337.3	-13.9	5.8
83.0	23805	180.5	0.18071	462.4	9.65	31.0	1.4914	225.4	608.2	225.44	14.2	359.0	-14.2	0.3
84.0	24021	178.1	0.18535	457.6	9.84	30.0	1.4771	224.7	611.9	224.70	14.7	352.9	-14.6	1.8
85.0	24243	169.1	0.18999	435.7	9.66	29.0	1.4624	224.1	616.3	224.10	17.2	351.3	-17.0	2.6

STATION PRIMROSE LAUNCH DATE 12281 LAUNCH TIME 1535 GMT ECC SONDE 3A1157X

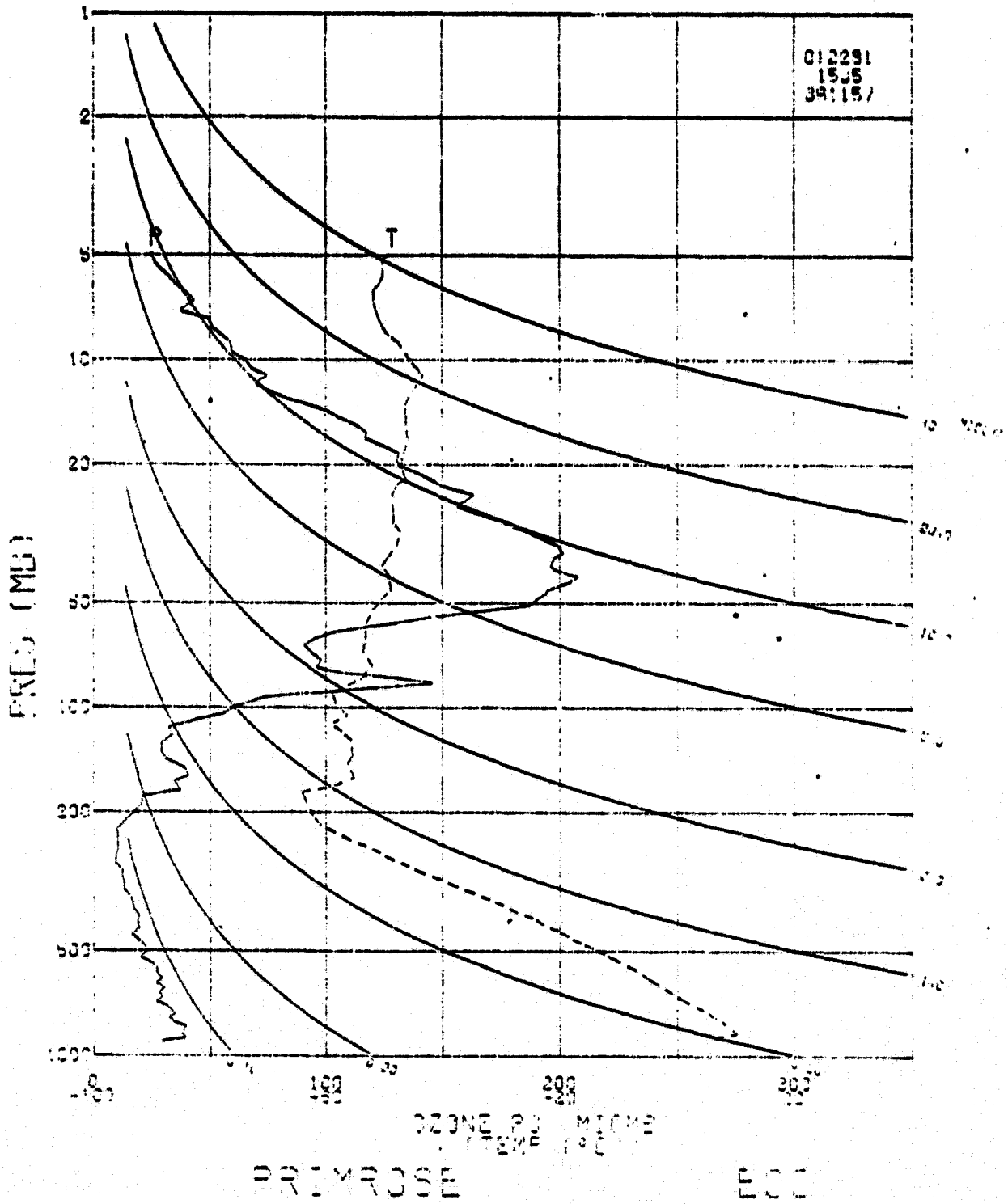
86.0	24473	162.2	0.19458	416.7	9.60	28.0	1.4472	224.7	624.1	224.70	17.2	355.2	-17.1	2.0
87.0	24712	156.2	0.19915	400.5	9.58	27.0	1.4314	225.1	631.9	225.14	19.2	335.3	-17.5	8.0
88.0	25218	162.6	0.20882	418.1	10.78	25.0	1.3979	224.5	644.2	224.55	18.7	338.5	-17.4	6.9
89.0	25378	157.3	0.21189	403.0	10.68	24.4	1.3874	225.3	650.9	225.29	15.9	349.3	-15.6	2.9
90.0	25654	148.6	0.21694	380.5	10.52	23.4	1.3692	225.4	659.1	225.44	19.5	337.8	-18.1	7.4
91.0	25943	143.3	0.22197	365.0	10.60	22.4	1.3502	226.8	671.3	226.75	21.6	336.8	-19.8	8.5
92.0	26215	138.0	0.22652	352.2	10.63	21.5	1.3324	226.2	677.5	226.17	19.5	340.7	-18.4	6.5
93.0	26466	131.7	0.23055	336.4	10.54	20.7	1.3160	226.0	684.4	226.02	18.1	342.3	-17.2	5.5
93.9	26692	130.5	0.23411	333.4	10.81	20.0	1.3010	226.0	691.2	226.02	19.7	337.1	-18.1	7.7
94.0	26726	130.3	0.23463	332.9	10.85	19.9	1.2989	226.0	692.1	226.02	19.9	336.4	-18.2	8.0
95.0	27032	131.1	0.23940	333.9	11.43	19.0	1.2788	226.6	703.2	226.61	23.9	334.4	-22.4	8.4
96.0	27354	124.5	0.24429	317.2	11.40	18.1	1.2577	226.6	713.0	226.61	26.2	343.3	-25.1	7.5
96.7	27577	118.9	0.24751	302.4	11.25	17.5	1.2430	227.0	721.3	227.04	25.6	343.0	-24.4	7.5
97.0	27654	117.0	0.24860	297.3	11.20	17.3	1.2380	227.2	724.1	227.19	25.4	342.9	-24.2	7.4
98.0	27928	117.1	0.25242	297.7	11.63	16.6	1.2201	227.2	732.7	227.19	24.1	335.2	-21.8	10.1
99.0	28256	112.8	0.25690	287.1	11.83	15.8	1.1987	226.9	742.2	226.90	26.2	328.6	-22.4	13.6
99.9	28600	105.7	0.26136	269.0	11.68	15.0	1.1761	226.9	753.3	226.90	25.5	337.6	-23.6	9.7
100.0	28645	104.8	0.26193	266.7	11.66	14.9	1.1732	226.9	754.7	226.90	25.5	338.8	-23.7	9.2
101.0	28917	99.7	0.26525	254.0	11.55	14.3	1.1553	226.6	762.6	226.61	23.8	345.1	-23.0	6.1
102.0	29153	92.4	0.26795	235.4	11.10	13.8	1.1399	226.8	770.9	226.75	27.2	341.9	-25.8	8.5
103.0	29448	82.1	0.27101	209.0	10.31	13.2	1.1206	226.9	781.3	226.90	29.7	349.5	-29.2	5.4
104.0	29757	74.8	0.27389	189.4	9.84	12.6	1.1004	228.0	795.8	228.05	31.9	354.2	-31.7	3.2
104.2	29810	73.9	0.27434	187.1	9.80	12.5	1.0969	228.1	797.9	228.14	32.6	354.1	-32.4	3.3
105.0	30083	69.5	0.27667	175.6	9.60	12.0	1.0792	228.6	808.9	228.62	36.0	353.5	-35.8	4.1
106.0	30427	74.1	0.27957	186.3	10.78	11.4	1.0569	229.8	825.0	229.75	37.3	349.3	-36.7	6.9
107.0	30728	67.9	0.28209	171.4	10.33	10.9	1.0374	228.9	832.5	228.90	36.6	340.2	-34.4	12.4
108.0	31106	65.1	0.28506	165.1	10.47	10.3	1.0128	227.6	841.3	227.62	34.2	345.8	-33.2	8.4
108.6	31302	61.7	0.28651	156.6	10.22	10.0	1.0000	227.5	848.2	227.53	34.9	347.7	-34.1	7.4
109.0	31437	59.4	0.28750	150.7	10.04	9.8	0.9912	227.5	852.8	227.47	35.4	349.0	-34.7	6.7
110.0	31928	58.3	0.29095	149.3	10.62	9.1	0.9590	225.6	863.8	225.58	35.0	344.7	-33.7	9.2
111.0	32223	54.6	0.29295	140.9	10.41	8.7	0.9395	224.0	868.7	223.95	32.8	350.4	-32.3	5.5
112.0	32531	50.6	0.29490	131.2	10.11	8.3	0.9191	222.9	876.3	222.90	34.7	348.5	-34.0	6.9
112.6	32770	49.6	0.29635	128.8	10.28	8.0	0.9031	222.4	883.8	222.44	36.2	345.2	-35.0	9.2
113.0	32935	48.9	0.29734	127.2	10.40	7.8	0.8921	222.1	888.9	222.13	37.3	343.1	-35.7	10.9
114.0	33277	37.3	0.29914	97.1	8.35	7.4	0.8692	221.7	900.5	221.67	42.8	344.0	-41.1	11.8
114.8	33636	41.8	0.30089	109.0	9.91	7.0	0.8451	221.3	913.4	221.30	47.3	346.7	-46.1	10.9
115.0	33730	42.9	0.30135	112.0	10.31	6.9	0.8388	221.2	916.8	221.20	48.5	347.3	-47.3	10.7
116.0	34116	38.6	0.30327	100.8	9.84	6.5	0.8129	221.2	932.6	221.20	40.7	353.3	-40.4	4.8
117.0	34422	35.0	0.30464	91.0	9.36	6.2	0.7924	222.3	949.9	222.28	38.8	2.8	-38.7	-1.9
117.7	34635	33.1	0.30551	85.7	9.13	6.0	0.7782	222.7	960.6	222.69	46.8	1.5	-46.8	-1.3

STATION PRIMROSE LAUNCH DATE 12281 LAUNCH TIME 1535 GMT ECC SONDE 3A1157X

118.0	34745	32.1	0.30596	83.1	9.00	5.9	0.7709	222.9	966.1	222.90	51.0	1.0	-51.0	-0.9
119.0	35085	28.4	0.30720	73.5	8.40	5.6	0.7482	222.9	980.6	222.90	49.0	359.9	-49.0	0.1
120.0	35322	26.5	0.30799	68.6	8.13	5.4	0.7324	222.9	990.8	222.90	45.7	354.8	-45.5	4.1
121.0	35695	24.6	0.30914	63.5	8.00	5.1	0.7076	223.7	1010.5	223.65	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION PRIMROSE LAUNCH DATE 12881 LAUNCH TIME 1731 GMT ECC SONDE 3A1170X

SURFACE CONDITIONS					
PRESS	931.9 MB	OO3 = 31.3	TBOX CAL =	30.0 C	AT 73.3 ORD
TEMP	261.6 K	OIZ = 31.3	BASE CAL =	30.0 C	AT 73.1 ORD
HUMY	98.0 %	OZC = 62.5	HUMIDITY =	61.6 %	AT 46.0 ORD
		IO = 0.002			
		PS = 28.0			

	PROFILE	DOBSON
INTEGRATED OZONE	0.38189	
RESIDUAL OZONE	0.03856	
TOTAL OZONE	0.42045	0.394

ADDITIONAL DOBSON INFORMATION

Interpolated Dobson		0.394
Stony Plain	@1856	0.389
Ft. Churchill	@1737	0.414

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	702	31.6	0.	69.9	0.06	931.9	2.9694	261.4	266.7	261.62	98.9	261.3	0.0016	2.0	150.0	1.7	-1.0
1.0	908	30.6	0.00067	68.1	0.06	907.0	2.9576	259.7	267.0	259.90	100.0	259.7	0.0015	8.9	160.0	8.4	-3.1
1.3	966	30.5	0.00085	67.8	0.06	900.0	2.9542	259.3	267.2	259.54	100.0	259.3	0.0014	9.1	161.2	8.6	-2.9
2.0	1137	30.1	0.00139	67.2	0.06	880.0	2.9445	258.3	267.9	258.49	100.0	258.3	0.0014	9.6	164.3	9.2	-2.6
3.0	1348	35.3	0.00210	77.1	0.07	856.0	2.9325	263.9	275.9	264.19	69.6	259.4	0.0015	9.3	168.0	9.1	-1.9
3.2	1402	35.8	0.00230	78.3	0.07	850.0	2.9294	264.0	276.6	264.24	63.8	258.3	0.0013	9.4	168.4	9.2	-1.9
4.0	1577	37.5	0.00295	82.0	0.07	831.0	2.9196	264.2	278.6	264.40	45.1	254.5	0.0010	9.6	169.8	9.5	-1.7
5.0	1803	40.9	0.00386	89.8	0.08	807.0	2.9069	263.1	279.7	263.11				9.3	174.5	9.3	-0.9
5.3	1870	40.7	0.00414	88.9	0.08	800.0	2.9031	264.0	281.4	264.10				9.4	174.7	9.3	-0.9
6.0	2067	39.9	0.00494	86.4	0.08	780.0	2.8921	266.9	286.5	266.99	22.3	248.9	0.0007	9.5	175.2	9.5	-0.8
7.0	2301	39.0	0.00588	84.2	0.09	757.0	2.8791	267.2	289.3	267.25				10.1	168.3	9.9	-2.1
8.0	2563	39.5	0.00692	85.7	0.09	732.0	2.8645	266.1	290.9	266.22				10.5	167.1	10.2	-2.3
9.0	2822	40.1	0.00796	87.4	0.09	708.0	2.8500	264.5	291.9	264.61	20.8	246.1	0.0006	10.5	166.9	10.3	-2.4
9.3	2909	38.9	0.00830	85.1	0.09	700.0	2.8451	264.0	292.4	264.12	21.1	245.8	0.0006	10.4	166.1	10.1	-2.5
10.0	3133	36.1	0.00918	79.3	0.09	680.0	2.8325	262.8	293.4	262.87	22.0	245.2	0.0006	10.2	163.9	9.8	-2.8
11.0	3420	36.2	0.01024	80.0	0.09	655.0	2.8162	261.4	294.9	261.44	21.5	243.8	0.0005	9.0	163.8	8.6	-2.5
12.0	3728	34.5	0.01137	76.9	0.09	629.0	2.7987	259.2	296.0	259.32	23.2	242.8	0.0005	8.4	160.6	7.9	-2.8
13.0	4034	34.6	0.01248	77.7	0.09	604.0	2.7810	257.2	297.0	257.24	23.9	241.3	0.0004	7.6	155.0	6.9	-3.2
13.2	4083	34.2	0.01265	76.8	0.09	600.0	2.7782	257.0	297.3	257.02	23.5	240.9	0.0004	7.4	154.7	6.7	-3.2
14.0	4351	31.9	0.01359	71.9	0.09	579.0	2.7627	255.8	299.0	255.85	21.3	238.9	0.0004	6.5	152.7	5.8	-3.0
15.0	4640	31.8	0.01456	72.2	0.09	557.0	2.7459	254.3	300.6	254.35	20.3	237.2	0.0003	6.3	146.3	5.3	-3.5

STATION PRIMROSE LAUNCH DATE 12881 LAUNCH TIME 1731 GMT ECC SONDE 3A1170X

16.0	4966	30.0	0.01563	68.8	0.09	533.0	2.7267	251.3	300.8	251.38	21.1	235.0	0.0003	6.2	143.3	5.0	-3.7
17.0	5289	29.9	0.01668	69.2	0.10	510.0	2.7076	249.1	301.9	249.10	21.8	233.4	0.0002	5.9	156.1	5.4	-2.4
17.4	5432	29.2	0.01713	68.0	0.10	500.0	2.6990	248.0	302.3	248.02	21.7	232.4	0.0002	5.9	165.5	5.7	-1.5
18.0	5623	28.3	0.01774	66.4	0.10	487.0	2.6875	246.5	302.8	246.57	21.5	231.1	0.0002	6.2	177.5	6.2	-0.3
19.0	5986	27.8	0.01886	65.9	0.10	463.0	2.6656	244.0	304.1	244.05	20.2	228.4	0.0001	5.8	184.9	5.8	0.5
20.0	6332	27.8	0.01992	66.5	0.10	441.0	2.6444	241.5	305.2	241.52	20.5	226.4	0.0001	2.9	184.4	2.9	0.2
21.0	6675	34.2	0.02112	82.5	0.13	420.0	2.6232	239.1	306.4	239.12	21.4	224.6	0.0001	2.5	341.7	-2.4	0.8
22.0	7013	29.2	0.02233	71.4	0.12	400.0	2.6021	236.0	306.7	236.05	24.5	223.1	0.0001	7.1	343.9	-6.9	2.0
22.0	7031	28.9	0.02240	70.8	0.12	399.0	2.6010	235.9	306.7	235.89	24.7	223.1	0.0001	7.4	344.0	-7.1	2.0
23.0	7366	23.7	0.02341	58.7	0.10	380.0	2.5796	233.0	307.2	233.01				10.3	334.8	-9.4	4.4
24.0	7694	23.0	0.02430	57.8	0.11	362.0	2.5587	229.9	307.4	229.93				10.3	326.6	-8.6	5.7
24.6	7919	22.6	0.02491	57.2	0.11	350.0	2.5441	228.4	308.3	228.41				9.0	327.4	-7.6	4.8
25.0	8055	22.4	0.02527	56.8	0.11	343.0	2.5353	227.5	308.9	227.50				8.1	328.0	-6.9	4.3
26.0	8371	24.6	0.02615	63.2	0.12	327.0	2.5145	224.9	309.5	224.86				7.7	335.3	-7.0	3.2
27.0	8720	21.1	0.02712	54.9	0.11	310.0	2.4914	222.1	310.4	222.13				8.0	328.3	-7.5	4.6
27.5	8931	19.5	0.02763	51.0	0.11	300.0	2.4771	220.8	311.4	220.75				10.2	319.9	-7.8	6.6
28.0	9106	18.2	0.02805	47.8	0.10	292.0	2.4654	219.6	312.2	219.61				11.6	314.6	-8.1	8.2
29.0	9419	18.2	0.02875	48.5	0.11	278.0	2.4440	216.5	312.1	216.49				13.3	302.4	-7.1	11.2
30.0	9792	17.6	0.02959	47.6	0.11	262.0	2.4183	213.5	313.1	213.54				13.4	295.9	-5.9	12.1
30.8	10086	28.6	0.03049	76.6	0.19	250.0	2.3979	215.1	319.6	215.07				9.8	310.5	-6.4	7.5
31.0	10162	31.4	0.03073	84.1	0.21	247.0	2.3927	215.5	321.3	215.47				9.0	315.9	-6.5	6.3
32.0	10582	45.8	0.03277	124.3	0.33	231.0	2.3636	213.0	323.7	213.00				4.1	333.2	-3.6	1.8
33.0	10888	53.5	0.03468	142.6	0.40	220.0	2.3424	216.5	333.7	216.49				5.5	279.8	-0.9	5.4
34.0	11244	62.5	0.03725	165.4	0.50	208.0	2.3181	218.0	341.4	217.99				6.7	293.9	-2.7	6.1
35.0	11495	61.2	0.03916	160.1	0.51	200.0	2.3010	220.7	349.6	220.73				5.8	321.5	-4.5	3.6
36.0	11896	55.3	0.04200	143.2	0.49	188.0	2.2742	222.9	359.3	222.90				7.4	306.1	-4.4	6.0
37.0	12253	58.0	0.04445	149.8	0.54	178.0	2.2504	223.5	366.0	223.51				7.9	297.9	-3.7	7.0
38.0	12670	105.3	0.04855	272.6	1.04	167.0	2.2227	222.9	371.7	222.90				7.3	299.8	-3.6	6.3
39.0	13074	116.5	0.05396	300.3	1.23	157.0	2.1959	224.0	380.1	223.96				8.7	299.0	-4.2	7.6
39.9	13372	118.2	0.05818	305.1	1.31	150.0	2.1761	223.7	384.7	223.70				8.2	303.8	-4.5	6.8
40.0	13416	118.5	0.05880	305.8	1.32	149.0	2.1732	223.7	385.3	223.66				8.1	304.5	-4.6	6.7
41.0	13824	124.5	0.06478	320.1	1.47	140.0	2.1461	224.6	393.8	224.56				8.2	297.6	-3.8	7.3
42.0	14161	138.9	0.07011	356.6	1.73	133.0	2.1239	224.9	400.2	224.86				8.0	303.2	-4.4	6.7
43.0	14362	121.3	0.07324	310.5	1.56	129.0	2.1106	225.5	404.7	225.45				6.5	327.3	-5.4	3.5
43.5	14569	124.9	0.07635	320.3	1.66	125.0	2.0969	225.2	408.0	225.24				5.4	333.5	-4.8	2.4
44.0	14784	128.8	0.07956	330.4	1.76	121.0	2.0828	225.0	411.4	225.01				4.4	342.8	-4.2	1.3
45.0	15118	120.5	0.08456	310.0	1.74	115.0	2.0607	224.4	416.3	224.41				4.6	19.6	-4.3	-1.5
46.0	15409	96.4	0.08836	248.7	1.45	110.0	2.0414	223.8	420.5	223.81				2.0	331.1	-1.7	0.9
47.0	15776	71.9	0.09209	186.0	1.15	104.0	2.0170	223.4	426.4	223.36				5.9	271.6	-0.2	5.9
47.7	16032	71.6	0.09430	184.7	1.19	100.0	2.0000	223.9	432.2	223.85				4.4	297.4	-2.0	3.9

STATION PRIMROSE LAUNCH DATE 12881 LAUNCH TIME 1731 GMT ECC SONDE 3A1170X

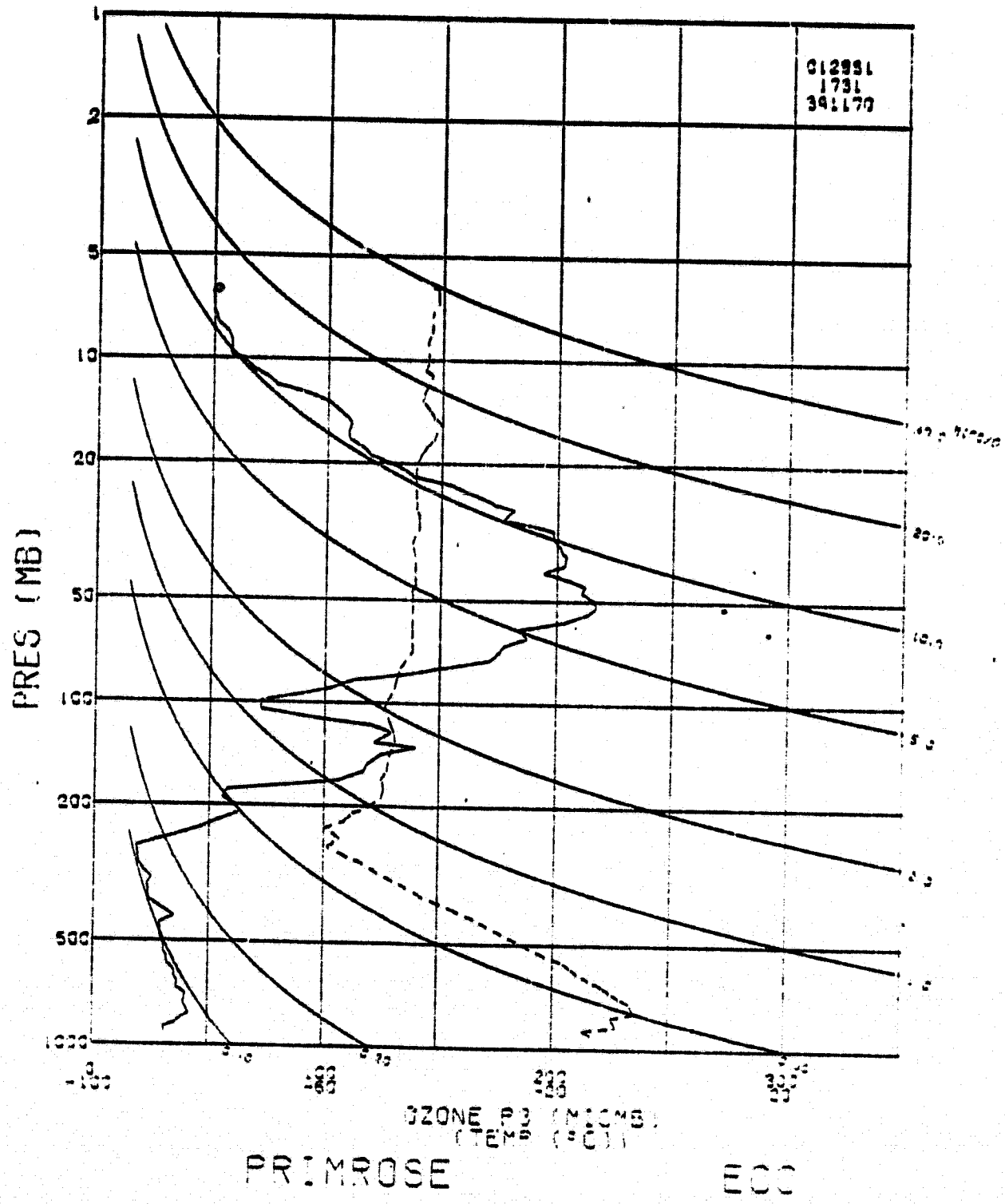
48.0	16165	71.4	0.09545	184.0	1.21	98.0	1.9912	224.1	435.2	224.11	4.2	315.8	-3.0	2.9
49.0	16439	86.8	0.09805	222.7	1.53	94.0	1.9731	225.0	442.2	225.01	2.5	354.9	-2.5	0.2
50.0	16725	101.7	0.10128	260.6	1.87	90.0	1.9542	225.3	448.3	225.31	2.9	323.0	-2.3	1.7
51.0	17102	112.5	0.10611	287.9	2.19	85.0	1.9294	225.6	456.3	225.60	5.8	333.0	-5.2	2.7
52.0	17339	132.5	0.10958	338.1	2.68	82.0	1.9138	226.2	462.2	226.19	7.0	356.5	-6.9	0.4
52.5	17502	141.6	0.11235	361.4	2.94	80.0	1.9031	226.3	465.6	226.26	7.0	359.6	-7.0	0.1
53.0	17670	151.0	0.11518	385.3	3.21	78.0	1.8921	226.3	469.1	226.34	7.0	2.7	-7.0	-0.3
54.0	18019	171.3	0.12187	436.6	3.84	74.0	1.8692	226.5	476.6	226.49	6.5	358.7	-6.4	0.1
55.0	18389	175.2	0.12947	443.0	4.15	70.0	1.8451	228.4	488.2	228.37	4.9	3.2	-4.9	-0.3
56.0	18681	177.3	0.13556	448.3	4.39	67.0	1.8261	228.4	494.4	228.37	4.8	351.1	-4.7	0.7
57.0	18987	186.5	0.14214	471.5	4.83	64.0	1.8062	228.4	500.9	228.37	6.7	347.6	-6.5	1.4
58.0	19418	183.6	0.15156	464.8	5.07	60.0	1.7782	228.1	509.6	228.08	7.7	3.0	-7.7	-0.4
59.0	19760	202.8	0.15938	514.1	5.90	57.0	1.7559	227.8	516.4	227.79	8.5	14.1	-8.3	-2.1
60.0	20121	212.8	0.16825	538.1	6.53	54.0	1.7324	228.4	525.8	228.37	10.0	18.0	-9.6	-3.1
61.0	20373	216.4	0.17464	547.0	6.89	52.0	1.7160	228.4	531.5	228.37	11.1	25.3	-10.0	-4.7
62.0	20635	215.8	0.18133	545.5	7.15	50.0	1.6990	228.4	537.5	228.37	10.9	37.2	-8.7	-6.6
63.0	21048	210.4	0.19173	533.0	7.42	47.0	1.6721	227.9	546.0	227.94	8.6	44.2	-6.2	-6.0
64.0	21338	211.6	0.19897	534.1	7.79	45.0	1.6532	228.8	554.9	228.80	5.0	32.7	-4.2	-2.7
65.0	21642	203.9	0.20642	514.5	7.86	43.0	1.6335	228.8	562.2	228.80	4.8	7.2	-4.8	-0.6
66.0	21960	193.9	0.21390	489.8	7.83	41.0	1.6128	228.5	569.2	228.51	6.5	8.4	-6.4	-1.0
66.5	22124	198.1	0.21776	500.4	8.21	40.0	1.6021	228.6	573.4	228.58	6.8	12.6	-6.6	-1.5
67.0	22294	202.4	0.22172	511.2	8.60	39.0	1.5911	228.7	577.7	228.65	7.1	16.5	-6.8	-2.0
68.0	22646	203.7	0.23015	514.9	9.12	37.0	1.5682	228.4	585.8	228.37	8.7	8.2	-8.6	-1.2
69.0	22829	201.8	0.23453	511.6	9.29	36.0	1.5563	227.8	588.9	227.79	11.9	4.8	-11.8	-1.0
69.5	23016	200.8	0.23900	508.8	9.51	35.0	1.5441	227.9	593.8	227.86	12.4	5.2	-12.3	-1.1
70.0	23210	199.7	0.24359	505.9	9.73	34.0	1.5315	227.9	599.0	227.94	12.9	5.6	-12.8	-1.3
71.0	23409	198.1	0.24828	501.4	9.94	33.0	1.5185	228.1	604.5	228.08	13.6	2.8	-13.6	-0.7
72.0	23827	197.8	0.25804	497.8	10.57	31.0	1.4914	229.4	618.8	229.37	14.0	4.5	-14.0	-1.1
73.0	24047	189.4	0.26305	476.7	10.46	30.0	1.4771	229.4	624.7	229.37	10.3	10.1	-10.1	-1.8
74.0	24274	176.5	0.26794	444.2	10.08	29.0	1.4624	229.4	630.7	229.37	10.9	12.7	-10.6	-2.4
75.0	24753	180.3	0.27800	455.4	11.07	27.0	1.43[illegible]4	228.7	641.7	228.65	13.7	13.0	-13.4	-3.1
76.0	25005	172.1	0.28325	434.5	10.97	26.0	1.4150	228.7	648.7	228.65	12.7	11.7	-12.4	-2.6
77.0	25267	167.3	0.28850	422.6	11.09	25.0	1.3979	228.5	655.6	228.51	13.8	13.5	-13.5	-3.2
78.0	25567	159.3	0.29430	403.0	11.04	23.9	1.3784	228.2	663.3	228.22	17.1	13.2	-16.6	-3.9
79.0	25882	152.6	0.30010	385.8	11.09	22.8	1.3579	228.4	672.7	228.37	15.5	12.4	-15.1	-3.3
80.0	26243	137.0	0.30627	346.1	10.51	21.6	1.3345	228.5	683.6	228.51	15.9	15.2	-15.4	-4.2
81.0	26592	131.6	0.31181	332.3	10.64	20.5	1.3118	228.7	694.3	228.65	20.2	15.1	-19.5	-5.3
81.7	26756	128.0	0.31433	322.9	10.60	20.0	1.3010	228.9	699.8	228.86	19.2	16.9	-18.4	-5.6
82.0	26824	126.5	0.31535	319.1	10.59	19.8	1.2967	228.9	702.1	228.94	18.8	17.7	-17.9	-5.7
83.0	27171	118.2	0.32035	297.5	10.42	18.8	1.2742	229.5	714.3	229.51	18.0	21.2	-16.8	-6.5

STATION PRIMROSE LAUNCH DATE 12881 LAUNCH TIME 1731 GMT ECC SONDE 3A1170X

84.0	27501	114.7	0.32486	287.5	10.62	17.9	1.2529	230.4	727.1	230.36	15.8	21.1	-14.7	-5.7
84.4	27653	112.2	0.32686	280.7	10.62	17.5	1.2430	230.9	733.6	230.91	16.2	20.6	-15.2	-5.7
85.0	27850	109.1	0.32942	271.9	10.63	17.0	1.2304	231.6	741.9	231.62	16.8	20.0	-15.8	-5.7
86.0	28177	108.4	0.33355	270.2	11.09	16.2	1.2095	231.8	752.7	231.76	24.9	21.4	-23.1	-9.1
87.0	28565	109.9	0.33848	272.5	11.90	15.3	1.1847	232.9	768.7	232.87	27.3	23.5	-25.0	-10.9
87.5	28699	108.9	0.34018	270.7	12.03	15.0	1.1761	232.2	771.0	232.25	26.9	22.6	-24.8	-10.3
88.0	28837	107.8	0.34192	268.8	12.15	14.7	1.1673	231.6	773.4	231.62	26.5	21.6	-24.7	-9.8
89.0	29215	103.5	0.34658	259.0	12.33	13.9	1.1430	230.6	782.5	230.64	29.1	18.2	-27.7	-9.1
90.0	29614	98.9	0.35131	248.8	12.51	13.1	1.1173	229.5	792.0	229.51	30.2	14.7	-29.2	-7.7
90.9	29929	90.8	0.35480	228.1	12.03	12.5	1.0969	229.9	804.0	229.87	28.1	14.6	-27.2	-7.1
91.0	29983	89.4	0.35539	224.6	11.95	12.4	1.0934	229.9	806.0	229.93	27.7	14.6	-26.8	-7.0
92.0	30316	77.1	0.35865	194.1	10.83	11.8	1.0719	229.5	816.0	229.51	25.1	16.9	-24.0	-7.3
93.0	30728	71.7	0.36225	179.0	10.71	11.1	1.0453	231.3	837.0	231.34	24.6	18.5	-23.3	-7.8
94.0	30976	66.8	0.36425	167.7	10.35	10.7	1.0294	230.1	841.2	230.08	25.9	16.5	-24.9	-7.4
95.0	31432	62.5	0.36771	156.5	10.36	10.0	1.0000	230.6	859.7	230.64	23.3	16.3	-22.3	-6.5
96.0	31637	57.0	0.36914	143.3	9.74	9.7	0.9868	229.8	864.1	229.79	24.8	20.4	-23.2	-8.6
97.0	32216	57.2	0.37302	143.5	10.65	8.9	0.9494	230.2	887.2	230.22	30.8	19.8	-29.0	-10.4
98.0	32687	55.3	0.37612	138.2	11.05	8.3	0.9191	231.2	908.9	231.20	29.3	19.1	-27.7	-9.6
98.7	32935	52.7	0.37768	131.5	10.90	8.0	0.9031	231.1	918.2	231.10	37.6	17.5	-35.9	-11.3
99.0	33021	51.7	0.37821	129.3	10.85	7.9	0.8976	231.1	921.3	231.06	40.5	17.1	-38.7	-11.9
100.0	33649	48.8	0.38189	121.9	11.24	7.2	0.8573	231.3	947.2	231.34	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION PRIMROSE LAUNCH DATE 20281 LAUNCH TIME 1515 GMT ECC SONDE 3A15218

SURFACE CONDITIONS					
PRESS	939.9 MB	OOS = 30.7	TBOX CAL =	30.0 C	AT 73.7 ORD
TEMP	258.4 K	OIZ = 30.7	BASE CAL =	30.0 C	AT 74.0 ORD
HUMY	97.0 %	OZC = 61.2	HUMIDITY =	62.3 %	AT 46.0 ORD
		IO = 0.002			
		PS = 30.9			

	PROFILE	DOBSON
INTEGRATED OZONE	0.41981	
RESIDUAL OZONE	0.03859	
TOTAL OZONE	0.45841	0.423

ADDITIONAL DOBSON INFORMATION

Interpolated Dobson		0.423
Stony Plain	@ 1953	0.430
Ft. Churchill	@ 1830	0.473

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	702	31.3	0.	69.9	0.06	939.9	2.9731	258.6	263.2	258.77	99.6	258.5	0.0013	6.0	330.0	-5.2	3.0
1.0	880	30.0	0.00057	67.3	0.05	918.0	2.9628	257.0	263.4	257.23	100.0	257.0	0.0012	4.3	295.9	-1.9	3.9
1.7	1030	33.8	0.00108	74.9	0.06	900.0	2.9542	260.7	268.6	260.93	100.0	260.7	0.0018	4.7	316.5	-3.4	3.2
2.0	1090	35.3	0.00128	77.8	0.07	893.0	2.9509	262.1	270.7	262.39	100.0	262.1	0.0018	4.9	323.5	-4.0	2.9
3.0	1290	38.7	0.00204	84.8	0.07	870.0	2.9395	263.2	273.9	263.48	69.6	258.8	0.0014	7.1	328.4	-6.1	3.7
3.8	1470	39.2	0.00276	85.4	0.08	850.0	2.9294	264.9	277.5	265.04	29.9	248.4	0.0005	8.1	328.9	-6.9	4.2
4.0	1525	39.3	0.00298	85.5	0.08	844.0	2.9263	265.4	278.6	265.52				8.4	329.1	-7.2	4.3
5.0	1739	41.3	0.00386	90.1	0.08	821.0	2.9143	264.7	280.1	264.77				8.4	337.1	-7.7	3.3
6.0	1939	39.8	0.00469	87.4	0.08	800.0	2.9031	263.1	280.4	263.27	45.9	253.7	0.0010	9.7	339.6	-9.1	3.4
7.0	2163	37.7	0.00558	83.1	0.08	777.0	2.8904	262.4	282.0	262.59	60.2	256.2	0.0013	12.4	339.9	-11.7	4.3
8.0	2403	37.1	0.00650	82.0	0.08	753.0	2.8768	261.1	283.1	261.32	69.1	256.6	0.0014	14.9	338.9	-13.9	5.3
9.0	2629	36.4	0.00736	80.7	0.08	731.0	2.8639	260.7	285.1	260.89	69.0	256.2	0.0014	16.4	338.3	-15.3	6.1
10.0	2851	37.8	0.00822	84.0	0.09	710.0	2.8513	259.5	286.2	259.76	73.2	255.8	0.0014	17.5	340.0	-16.5	6.0
10.4	2958	37.0	0.00863	82.3	0.09	700.0	2.8451	259.4	287.2	259.58	72.9	255.6	0.0014	18.1	340.9	-17.1	5.9
11.0	3101	35.9	0.00918	80.0	0.09	687.0	2.8370	259.1	288.5	259.34	72.6	255.3	0.0014	18.9	342.0	-17.9	5.8
12.0	3359	33.4	0.01011	74.4	0.08	664.0	2.8222	259.1	291.3	259.36	74.6	255.6	0.0014	18.7	345.1	-18.0	4.8
13.0	3555	31.5	0.01077	70.4	0.08	647.0	2.8109	258.3	292.5	258.51	76.2	255.0	0.0014	19.0	345.3	-18.4	4.8
14.0	3792	32.7	0.01157	73.5	0.09	627.0	2.7973	257.0	293.7	257.23	68.5	252.6	0.00[illegible]	21.2	345.4	-20.5	5.3
15.0	4035	32.1	0.01239	72.7	0.09	607.0	2.7832	255.1	294.2	255.27	57.0	248.7	0.[illegible]	23.7	347.[illegible]	-23.2	5.1
15.3	4121	33.1	0.01270	74.9	0.09	600.0	2.7782	254.9	295.0	254.99	39.8	241.5	0.0004	25.3	348.2	-24.8	5.2
16.0	4285	34.8	0.01328	79.0	0.10	587.0	2.7686	254.5	296.3	254.47				28.3	349.1	-27.8	5.4

STATION PRIMROSE LAUNCH DATE 20281 LAUNCH TIME 1515 GMT ECC SONDE 3A1521X

17.0	4529	33.5	0.01417	76.2	0.10	568.0	2.7543	253.6	298.1	253.66				29.1	346.7	-28.3	6.7
18.0	4767	30.8	0.01498	70.4	0.09	550.0	2.7404	252.6	299.6	252.60				28.5	342.4	-27.2	8.6
19.0	5026	29.4	0.01582	67.9	0.09	531.0	2.7251	250.4	300.1	250.48	24.4	235.7	0.0003	31.3	339.3	-29.3	11.0
20.0	5320	26.0	0.01670	60.3	0.08	510.0	2.7076	248.4	301.2	248.50	34.3	237.2	0.0003	34.2	341.0	-32.3	11.2
20.5	5463	25.0	0.01709	58.1	0.08	500.0	2.6990	248.1	302.4	248.13	34.4	237.0	0.0003	35.8	343.7	-34.4	10.0
21.0	5625	23.9	0.01753	55.6	0.08	489.0	2.6893	247.7	303.8	247.71	34.6	236.6	0.0003	37.8	346.6	-36.8	8.8
22.0	5911	23.9	0.01827	56.0	0.08	470.0	2.6721	246.1	305.3	246.15	55.1	239.8	0.0005	40.9	348.1	-40.0	8.5
23.0	6207	25.2	0.01907	59.6	0.09	451.0	2.6542	244.1	306.5	244.16	44.9	236.0	0.0003	43.1	347.3	-42.1	9.5
24.0	6513	23.8	0.01990	57.0	0.09	432.0	2.6355	241.6	307.1	241.65	29.3	229.7	0.0002	44.5	347.5	-43.4	9.6
25.0	6846	22.5	0.02077	54.2	0.09	412.0	2.6149	239.4	308.4	239.40				42.7	349.8	-42.0	7.5
25.6	7051	22.1	0.02129	53.5	0.09	400.0	2.6021	237.7	308.9	237.74				41.8	352.0	-41.4	5.8
26.0	7175	21.8	0.02159	53.1	0.09	393.0	2.5944	236.7	309.2	236.75				41.3	353.3	-41.0	4.8
27.0	7479	21.7	0.02235	53.6	0.10	376.0	2.5752	234.1	309.6	234.08				40.1	354.8	-40.0	3.6
28.0	7737	19.0	0.02296	47.4	0.09	362.0	2.5587	231.5	309.5	231.50				41.2	355.8	-41.1	3.0
28.9	7964	19.5	0.02348	49.0	0.09	350.0	2.5441	229.9	310.3	229.86				41.9	356.0	-41.8	2.9
29.0	8003	19.6	0.02356	49.3	0.09	348.0	2.5416	229.6	310.4	229.58				42.0	356.1	-41.9	2.9
30.0	8277	20.2	0.02421	51.4	0.10	334.0	2.5237	227.3	311.0	227.34				44.5	356.2	-44.4	3.0
31.0	8560	18.8	0.02487	48.1	0.10	320.0	2.5051	225.3	312.1	225.34				43.6	356.8	-43.6	2.5
32.0	8832	18.8	0.02548	48.6	0.10	307.0	2.4871	223.0	312.5	223.00				46.7	357.6	-46.7	1.9
32.5	8981	18.8	0.02583	48.9	0.10	300.0	2.4771	221.9	313.0	221.88				46.2	358.7	-46.2	1.0
33.0	9135	18.8	0.02617	49.1	0.11	293.0	2.4669	220.7	313.5	220.74				45.7	359.9	-45.7	0.1
34.0	9427	18.0	0.02683	47.5	0.11	280.0	2.4472	219.0	315.1	219.04				45.7	2.2	-45.7	-1.8
35.0	9683	16.1	0.02737	42.7	0.10	269.0	2.4298	217.3	316.2	217.29				47.6	2.9	-47.6	-2.4
36.0	9947	14.0	0.02787	37.4	0.09	258.0	2.4116	215.8	317.8	215.82				45.5	4.8	-45.3	-3.8
36.7	10145	16.4	0.02826	44.1	0.11	250.0	2.3979	214.7	319.1	214.73				44.1	5.2	-43.9	-4.0
37.0	10221	17.3	0.02841	46.6	0.12	247.0	2.3927	214.3	319.6	214.31				43.6	5.4	-43.4	-4.1
38.0	10506	23.9	0.02915	64.3	0.17	236.0	2.3729	214.3	323.8	214.31				38.9	6.1	-38.7	-4.2
39.0	10777	34.1	0.03014	92.2	0.25	226.0	2.3541	213.6	326.7	213.63				34.1	2.3	-34.1	-1.4
40.0	11031	43.0	0.03137	116.2	0.33	217.0	2.3365	213.5	330.3	213.46				33.7	356.9	-33.7	1.8
41.0	11297	70.4	0.03327	188.3	0.56	208.0	2.3181	215.8	338.0	215.82				32.8	351.9	-32.5	4.6
42.0	11547	76.4	0.03554	200.1	0.63	200.0	2.3010	220.3	348.9	220.28				29.7	350.1	-29.3	5.1
43.0	11811	101.1	0.03840	262.9	0.87	192.0	2.2833	222.0	355.7	221.96				26.3	348.4	-25.8	5.3
44.0	12086	103.1	0.04182	269.7	0.93	184.0	2.2648	220.7	358.0	220.74				24.4	346.5	-23.8	5.7
45.0	12264	98.0	0.04401	255.6	0.91	179.0	2.2529	221.5	362.1	221.50				23.5	346.1	-22.8	5.6
46.0	12523	90.9	0.04698	235.4	0.88	172.0	2.2355	223.0	368.7	223.00				24.9	347.3	-23.7	7.6
47.0	12755	92.0	0.04955	237.8	0.92	166.0	2.2201	223.4	373.2	223.44				25.8	346.3	-25.1	6.1
48.0	12996	93.1	0.05224	240.0	0.96	160.0	2.2041	224.0	378.2	224.03				23.8	348.6	-23.3	4.7
49.0	13247	91.3	0.05502	233.2	0.98	154.0	2.1875	226.1	385.8	226.06				23.5	351.5	-23.3	3.5
49.8	13420	122.9	0.05733	313.6	1.36	150.0	2.1761	226.3	389.1	226.29				22.9	351.4	-22.7	3.4
50.0	13465	131.0	0.05791	334.0	1.46	149.0	2.1732	226.3	389.9	226.35				22.8	351.4	-22.5	3.4

STATION PRIMROSE LAUNCH DATE 20281 LAUNCH TIME 1515 GMT ECC SONDE 3A1521X

51.0	13737	114.0	0.06186	291.2	1.32	143.0	2.1553	225.9	393.8	225.92	22.4	349.7	-22.1	4.0
52.0	13924	95.5	0.06423	245.6	1.14	139.0	2.1430	224.5	394.5	224.47	22.3	349.7	-21.9	4.0
53.0	14165	85.4	0.06684	218.6	1.06	134.0	2.1271	223.6	400.7	225.63	20.5	349.6	-20.2	3.7
54.0	14365	84.0	0.06887	214.7	1.07	130.0	2.1139	225.9	404.7	225.92	19.9	353.4	-19.7	2.3
55.0	14624	83.0	0.07145	212.1	1.10	125.0	2.0969	226.1	409.5	226.06	18.0	355.7	-17.9	1.4
56.0	14839	90.6	0.07368	231.1	1.24	121.0	2.0828	226.3	413.8	226.35	17.2	358.3	-17.1	0.5
57.0	15061	100.3	0.07621	255.9	1.42	117.0	2.0682	226.2	417.6	226.20	15.3	359.3	-15.3	0.2
58.0	15350	82.3	0.07936	209.6	1.22	112.0	2.0492	226.8	423.9	226.77	12.7	1.0	-12.7	-0.2
59.0	15529	85.2	0.08115	218.0	1.30	109.0	2.0374	225.8	425.3	225.77	11.1	355.[illegible]	-11.1	0.9
60.0	15838	86.9	0.08434	223.5	1.38	104.0	2.0170	224.5	428.6	224.47	13.0	345.3	-12.5	3.3
61.0	16095	106.7	0.08734	275.9	1.77	100.0	2.0000	223.3	431.1	223.30	14.4	345.9	-14.0	3.5
62.0	16362	132.7	0.09119	341.9	2.29	96.0	1.9823	224.0	437.6	224.03	17.2	344.5	-16.6	4.6
63.0	16642	146.5	0.09588	375.2	2.64	92.0	1.9638	225.5	445.8	225.49	14.9	357.2	-14.9	0.7
64.0	16860	148.2	0.09974	379.4	2.76	89.0	1.9494	225.5	450.1	225.49	12.2	9.0	-12.1	-1.9
65.0	17086	164.4	0.10396	421.0	3.17	86.0	1.9345	225.5	454.5	225.49	12.7	12.1	-12.4	-2.7
66.0	17321	178.2	0.10876	451.8	3.56	83.0	1.9191	227.8	463.8	227.76	11.8	14.0	-11.4	-2.8
67.0	17566	197.1	0.11422	499.2	4.08	80.0	1.9031	227.9	469.0	227.91	14.2	4.1	-14.1	-1.0
68.0	17821	207.0	0.12031	524.5	4.46	77.0	1.8865	227.9	474.1	227.91	10.8	359.9	-10.8	0.0
69.0	18086	218.6	0.12698	551.4	4.89	74.0	1.8692	228.9	481.6	228.89	9.2	16.4	-8.8	-2.6
70.0	18363	241.2	0.13449	606.9	5.63	71.0	1.8513	229.4	488.5	229.44	8.2	8.2	-8.1	-1.2
70.5	18457	243.2	0.13721	612.3	5.76	70.0	1.8451	229.4	490.4	229.37	6.6	27.1	-5.9	-3.0
71.0	18554	245.3	0.13998	617.7	5.89	69.0	1.8388	229.3	492.2	229.30	6.1	53.4	-3.6	-4.9
72.0	18852	247.4	0.14862	622.1	6.21	66.0	1.8195	229.6	499.1	229.58	11.7	23.9	-10.7	-4.8
73.0	19058	237.1	0.15450	598.2	6.14	64.0	1.8062	228.9	502.0	228.89	9.6	16.4	-9.2	-2.7
74.0	19271	233.5	0.16039	588.0	6.24	62.0	1.7924	229.3	507.5	229.30	11.4	25.5	-10.3	-4.9
75.0	19490	246.7	0.16661	622.8	6.81	60.0	1.7782	228.7	511.0	228.75	10.9	13.7	-10.6	-2.6
76.0	19833	246.1	0.17658	621.6	7.15	57.0	1.7559	228.6	518.3	228.61	7.8	44.8	-5.1	-4.9
77.0	20072	245.4	0.18351	616.5	7.39	55.0	1.7404	229.9	526.4	229.86	8.7	26.1	-7.8	-3.8
78.0	20320	243.2	0.19065	614.3	7.60	53.0	1.7243	228.6	529.2	228.61	7.7	38.8	-6.0	-4.8
79.0	20577	238.6	0.19796	605.1	7.75	51.0	1.7076	227.6	532.7	227.62	11.1	28.4	-9.7	-5.3
79.5	20708	238.5	0.20169	605.3	7.90	50.0	1.6990	227.5	535.4	227.48	11.1	33.3	-9.3	-6.1
80.0	20843	238.4	0.20549	605.4	8.06	49.0	1.6902	227.3	538.2	227.34	11.3	38.3	-8.9	-7.0
81.0	21120	238.4	0.21333	605.0	8.40	47.0	1.6721	227.5	544.9	227.48	10.8	41.5	-8.1	-7.1
82.0	21410	237.0	0.22148	599.0	8.73	45.0	1.6532	228.5	554.1	228.47	8.7	60.7	-4.3	-7.6
83.0	21560	241.1	0.22572	605.5	9.08	44.0	1.6435	229.9	561.1	229.86	11.3	29.0	-9.9	-5.5
84.0	21873	241.8	0.23459	607.1	9.54	42.0	1.6232	230.0	569.0	229.99	17.7	5.3	-17.7	-1.6
85.0	22201	240.2	0.24387	603.0	9.95	40.0	1.6021	230.0	576.9	229.99	10.2	13.3	-10.0	-2.5
86.0	22371	235.8	0.24862	590.2	10.02	39.0	1.5911	230.7	582.9	230.68	5.8	51.9	-3.6	-4.6
87.0	22726	232.9	0.25836	584.4	10.43	37.0	1.5682	230.1	590.3	230.13	8.1	82.2	-1.1	-8.1
88.0	22910	227.7	0.26334	571.6	10.48	36.0	1.5563	230.0	594.6	229.99	10.8	110.8	3.8	-10.1

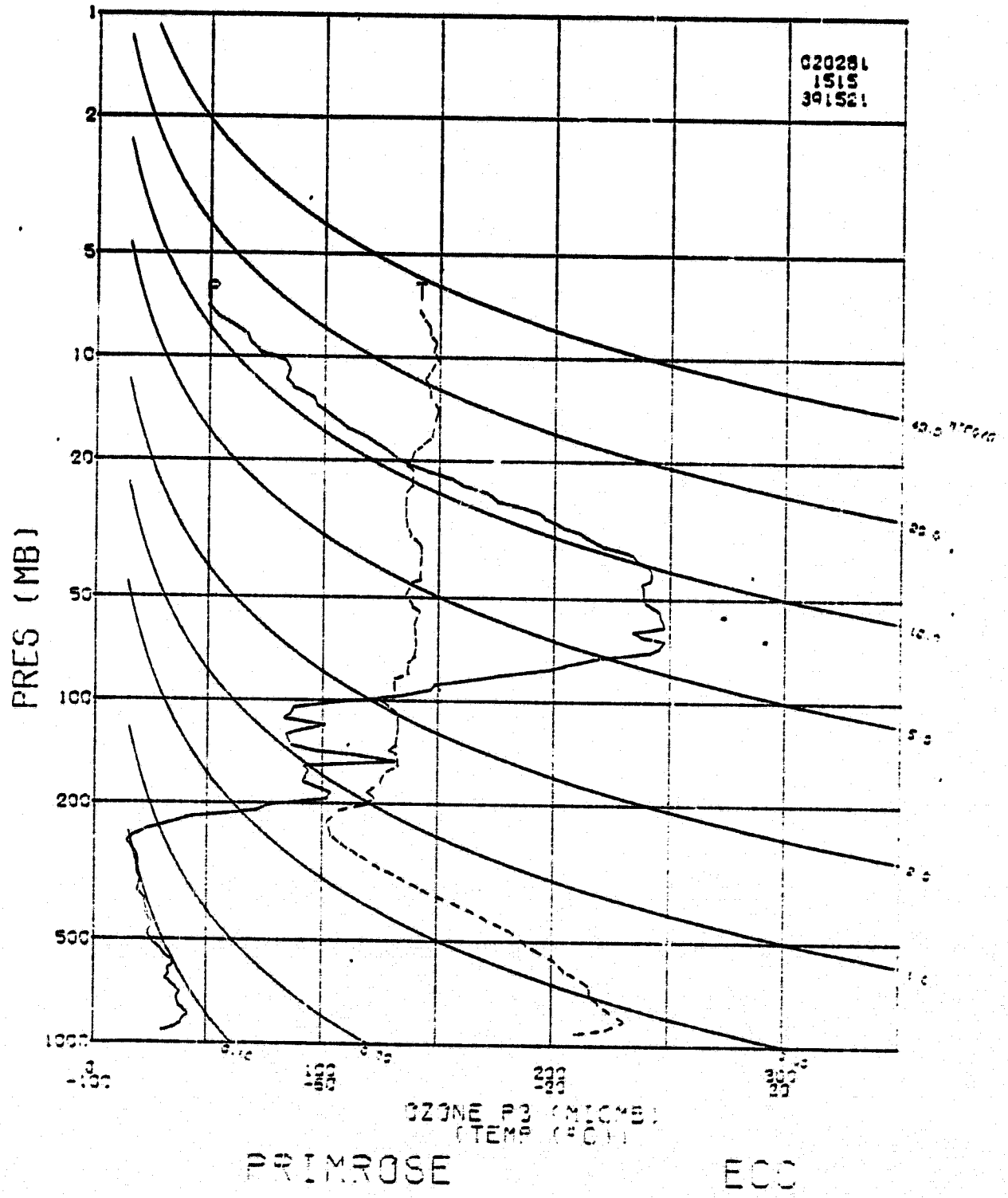
STATION PRIMROSE LAUNCH DATE 20281 LAUNCH TIME 1515 GMT ECC SONDE 3A1521X

89.0	23099	219.9	0.26831	552.8	10.41	35.0	1.5441	229.7	598.7	229.72	11.8	71.6	-3.7	-11.2
90.0	23493	212.8	0.27836	538.5	10.69	33.0	1.5185	228.2	604.7	228.19	1[illegible].6	52.8	-8.2	-10.9
91.0	23698	210.1	0.28349	531.6	10.88	32.0	1.5051	228.2	610.1	228.19	12.8	59.6	-6.5	-11.1
92.0	23909	203.7	0.28868	517.4	10.89	31.0	1.4914	227.3	613.4	227.34	22.2	28.3	-19.5	-10.5
92.5	24126	199.6	0.29384	507.2	11.02	30.0	1.4771	227.2	618.8	227.20	20.3	26.3	-18.2	-9.0
93.0	24352	195.3	0.29918	496.5	11.16	29.0	1.4624	227.1	624.4	227.06	18.4	23.9	-16.8	-7.4
94.0	24585	191.9	0.30454	487.5	11.36	28.0	1.4472	227.3	631.5	227.34	7.6	58.3	-4.0	-6.5
95.0	24827	184.4	0.30994	468.5	11.31	27.0	1.4314	227.2	637.7	227.20	11.3	45.7	-7.9	-8.1
96.0	25078	174.4	0.31528	443.2	11.11	26.0	1.4150	227.2	644.6	227.20	16.0	45.5	-11.2	-11.4
96.7	25338	170.9	0.32059	434.2	11.33	25.0	1.3979	227.3	652.1	227.29	16.9	54.4	-9.8	-13.7
97.0	25473	169.1	0.32333	429.6	11.44	24.5	1.3892	227.3	656.0	227.34	17.5	58.5	-9.1	-14.9
98.0	25779	159.6	0.32929	403.5	11.30	23.4	1.3692	228.3	667.6	228.33	16.3	[illegible]0.0	-[illegible].1	-15.1
99.0	26100	153.8	0.33524	389.7	11.43	22.3	1.3483	227.9	675.6	227.91	12.4	73.5	-3.5	-11.9
100.0	26406	144.3	0.34064	364.5	11.23	21.3	1.3284	228.6	686.6	228.61	10.8	70.2	-3.7	-10.2
101.0	26629	137.9	0.34436	350.1	11.09	20.6	1.3139	227.3	689.3	227.34	13.2	64.9	-5.6	-11.9
101.7	26826	133.5	0.34750	338.2	11.05	20.0	1.3010	227.9	696.9	227.90	14.4	65.9	-5.9	-13.1
102.0	26927	131.2	0.34910	332.0	11.04	19.7	1.2945	228.2	700.8	228.19	15.0	66.4	-6.0	-13.7
103.0	27275	127.0	0.35441	320.5	11.25	18.7	1.2718	228.7	713.0	228.75	16.3	58.5	-8.5	-13.9
104.0	27606	122.1	0.35926	306.1	11.36	17.8	1.2504	230.3	728.0	230.27	20.9	49.1	-13.7	-15.8
104.3	27720	120.3	0.36086	301.0	11.39	17.5	1.2430	230.8	733.1	230.76	22.0	48.6	-14.6	-16.5
105.0	27957	116.7	0.36414	290.7	11.44	16.9	1.2279	231.8	743.7	231.78	24.2	47.6	-16.3	-17.9
106.0	28328	109.0	0.36902	271.4	11.29	16.0	1.2041	231.9	755.8	231.91	23.5	57.3	-12.7	-19.8
107.0	28721	104.2	0.37389	258.8	11.44	15.1	1.1790	232.5	770.3	232.46	21.2	51.2	-13.3	-16.5
107.1	28766	103.6	0.37442	257.3	11.45	15.0	1.1761	232.5	771.9	232.51	20.9	50.4	-13.3	-16.1
108.0	29091	99.4	0.37826	246.5	11.52	14.3	1.1553	232.9	783.7	232.86	18.8	44.4	-13.4	-13.2
109.0	29334	96.0	0.38101	237.6	11.53	13.8	1.1399	233.4	793.5	233.40	15.4	57.7	-8.2	-13.0
110.0	29745	94.2	0.38549	235.0	12.01	13.0	1.1139	231.5	800.6	231.50	14.2	65.8	-5.8	-13.0
110.6	30015	89.0	0.38827	222.2	11.79	12.5	1.0969	231.3	808.8	231.25	18.5	52.0	-11.4	-14.6
111.0	30170	85.8	0.39000	214.3	11.65	12.2	1.0864	231.1	813.8	231.09	21.5	46.4	-14.8	-15.6
112.0	30510	82.5	0.39335	206.6	11.78	11.6	1.0645	230.4	823.2	230.41	22.9	43.9	-16.5	-15.9
113.0	30931	84.3	0.39744	210.2	12.81	10.9	1.0374	231.5	842.0	231.50	24.7	52.9	-14.9	-19.7
114.0	31382	81.7	0.40179	202.9	13.28	10.2	1.0086	232.6	862.1	232.59	25.5	51.7	-15.8	-20.0
114.3	31516	78.2	0.40298	194.2	12.93	10.0	1.0000	232.4	866.2	232.37	23.9	54.0	-14.0	-19.4
115.0	31794	70.8	0.40544	176.1	12.21	9.6	0.9823	231.9	874.6	231.91	20.7	59.9	-10.4	-17.9
116.0	32157	67.0	0.40834	166.5	12.21	9.1	0.9590	232.5	890.2	232.46	22.2	64.0	-9.7	-19.9
117.0	32540	65.5	0.41130	163.5	12.62	8.6	0.9345	231.4	900.4	231.37	22.4	56.1	-12.5	-18.6
118.0	32945	59.9	0.41426	149.5	12.24	8.1	0.9085	231.1	914.9	231.09	24.5	51.6	-15.2	-19.2
118.2	33028	58.4	0.41481	146.1	12.09	8.0	0.9031	230.9	917.3	230.88	25.2	50.3	-16.1	-19.4
119.0	33375	52.6	0.41709	132.1	11.47	7.6	0.8808	230.0	927.3	229.99	28.1	45.6	-19.7	-20.1
120.0	33832	48.9	0.41981	123.2	11.41	7.1	0.8513	229.0	941.5	229.02	999.9	999.9	999.9	999.9

STATION PRIMROSE LAUNCH DATE 20281 LAUNCH TIME 1515 GMT ECC SONDE 3A1521X

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION PRIMROSE LAUNCH DATE 21981 LAUNCH TIME 1825 GMT ECC SONDE 3A1520X

SURFACE CONDITIONS
PRESS 919.5 MB
TEMP 274.8 K
HUMY 53.0 %

003 = 30.3
OIZ = 30.3
OZC = 60.5
IO = 0.002
PS = 28.7

TBOX CAL = 30.0 C AT 74.3 ORD
BASE CAL = 30.0 C AT 73.8 ORD
HUMIDITY = 61.1 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.41343	
RESIDUAL OZONE	0.04848	
TOTAL OZONE	0.46191	0.

ADDITIONAL DOBSON INFORMATION

Interpolated Dobson		0.---
Stony Plain	@1820	0.428
Ft. Churchill	@----	0.---

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	702	37.1	0.	78.1	0.07	919.5	2.9636	274.6	281.3	275.04	58.5	267.3	0.0027	4.0	150.0	3.5	-2.0
1.0	875	39.5	0.00065	82.6	0.07	900.0	2.9542	276.5	284.9	276.94	50.4	267.2	0.0027	11.4	166.7	11.1	-2.6
1.0	884	39.7	0.00068	82.8	0.07	899.0	2.9538	276.6	285.1	277.04	50.0	267.2	0.0027	11.8	167.0	11.4	-2.6
2.0	1084	40.9	0.00147	85.5	0.08	877.0	2.9430	276.4	287.0	276.79	41.0	264.4	0.0022	11.3	172.6	11.2	-1.5
3.0	1289	41.1	0.00229	86.0	0.08	855.0	2.9320	275.7	288.4	276.02	30.6	260.2	0.0016	8.5	173.9	8.5	-0.9
3.2	1336	40.8	0.00248	85.5	0.08	850.0	2.9294	275.3	288.4	275.59	31.4	260.1	0.0016	8.4	175.1	8.3	-0.7
4.0	1489	39.8	0.00309	83.9	0.08	834.0	2.9212	273.9	288.5	274.21	33.9	259.9	0.0016	7.9	179.3	7.9	-0.1
5.0	1702	39.1	0.00392	83.1	0.08	812.0	2.9096	271.8	288.5	272.09	35.5	258.5	0.0015	7.4	181.8	7.4	0.2
5.5	1820	38.4	0.00437	81.8	0.08	800.0	2.9031	270.8	288.6	271.08	38.7	258.6	0.0016	7.5	184.3	7.5	0.6
6.0	1920	37.7	0.00475	80.7	0.08	790.0	2.8976	270.0	288.8	270.22	41.4	258.7	0.0016	7.6	186.3	7.6	0.8
7.0	2142	37.1	0.00559	79.8	0.08	768.0	2.8854	268.4	289.4	268.64	38.2	256.4	0.0013	9.3	194.3	9.0	2.3
8.0	2349	36.4	0.00635	78.7	0.08	748.0	2.8739	267.2	290.3	267.35	26.0	250.9	0.0008	10.9	203.3	10.0	4.3
9.0	2560	36.5	0.00713	79.1	0.08	728.0	2.8621	266.2	291.4	266.27	21.4	247.8	0.0007	11.3	209.3	9.9	5.5
10.0	2765	39.7	0.00793	86.4	0.09	709.0	2.8506	265.4	292.8	265.50				10.6	211.0	9.1	5.4
10.4	2864	38.9	0.00832	84.7	0.09	700.0	2.8451	265.0	293.4	265.04				10.4	215.1	8.5	6.0
11.0	2987	37.8	0.00880	82.5	0.09	689.0	2.8382	264.4	294.1	264.46				10.3	220.3	7.9	6.7
12.0	3203	38.4	0.00964	84.4	0.10	670.0	2.8261	263.1	295.0	263.16				10.1	218.4	7.9	6.3
13.0	3435	36.5	0.01054	80.6	0.09	650.0	2.8129	261.4	295.6	261.41				9.9	206.3	8.9	4.4
14.0	3673	36.5	0.01144	81.3	0.10	630.0	2.7993	259.3	295.8	259.40	45.9	250.1	0.0009	11.5	206.6	10.3	5.2
15.0	3917	33.3	0.01233	74.6	0.09	610.0	2.7853	257.6	296.7	257.76	59.1	251.4	0.0011	14.1	205.1	12.8	6.0
15.5	4041	33.3	0.01276	74.5	0.09	600.0	2.7782	257.8	298.3	257.95	52.4	250.2	0.0010	15.2	207.5	13.5	7.0

STATION PRIMROSE LAUNCH DATE 21981 LAUNCH TIME 1825 GMT ECC SONDE 3A1520X

16.0	4168	33.3	0.01320	74.5	0.09	590.0	2.7709	258.0	300.0	258.14	45.6	248.9	0.0009	16.3	289.5	14.1	8.0
17.0	4415	32.6	0.01405	73.3	0.09	571.0	2.7566	257.2	301.8	257.35	59.3	251.1	0.0011	17.4	217.8	13.7	10.6
18.0	4656	32.5	0.01488	73.2	0.10	553.0	2.7427	256.5	303.8	256.68	67.1	251.8	0.0012	16.9	225.0	11.9	11.9
19.0	4918	26.6	0.01569	60.2	0.08	534.0	2.7275	255.5	305.7	255.71	66.9	250.9	0.0012	16.8	236.7	9.2	14.0
20.0	5217	22.1	0.01646	50.4	0.07	513.0	2.7101	253.2	306.4	253.39	68.2	248.9	0.0010	15.5	252.7	4.6	14.8
20.7	5406	19.2	0.01687	44.0	0.06	500.0	2.6990	252.2	307.4	252.30	61.2	246.7	0.0008	15.1	261.9	2.1	14.9
21.0	5481	18.1	0.01703	41.5	0.06	495.0	2.6946	251.8	307.8	251.87	58.5	245.8	0.0008	15.0	265.6	1.1	15.0
22.0	5753	16.1	0.01753	37.1	0.06	477.0	2.6785	250.0	308.9	250.13	57.7	244.0	0.0007	15.9	266.9	0.9	15.9
23.0	6049	17.4	0.01807	40.7	0.06	458.0	2.6609	247.1	308.9	247.21	66.1	242.7	0.0006	16.5	267.7	0.7	16.5
24.0	6337	16.1	0.01860	37.9	0.06	440.0	2.6435	244.6	309.3	244.71	79.7	242.2	0.0006	18.0	265.8	1.3	17.9
25.0	6651	16.1	0.01916	38.3	0.06	421.0	2.6243	242.0	309.8	242.07	94.0	241.3	0.0006	18.9	267.2	0.9	18.9
26.0	6941	13.3	0.01963	32.2	0.05	404.0	2.6064	239.3	310.1	239.42	97.4	239.1	0.0005	21.7	262.3	2.9	21.5
26.2	7010	13.5	0.01974	32.6	0.06	400.0	2.6021	238.9	310.4	238.96	97.9	238.6	0.0005	22.1	261.1	3.4	21.9
27.0	7277	14.0	0.02015	34.1	0.06	385.0	2.5855	237.1	311.4	237.16	99.5	237.0	0.0004	23.9	257.0	5.4	23.3
28.0	7551	14.0	0.02059	34.4	0.06	370.0	2.5682	235.2	312.5	235.28	94.6	234.7	0.0004	23.1	257.9	4.8	22.6
29.0	7796	16.0	0.02102	39.7	0.07	357.0	2.5527	233.1	312.8	233.07				23.8	260.3	4.0	23.5
29.5	7930	16.6	0.02128	41.4	0.08	350.0	2.5441	232.1	313.3	232.12				24.2	262.7	3.1	24.0
30.0	8067	17.2	0.02154	43.0	0.08	343.0	2.5353	231.2	313.8	231.15				24.6	265.0	2.1	24.5
31.0	8347	17.3	0.02211	43.6	0.09	329.0	2.5172	228.7	314.1	228.65				25.0	269.6	0.2	25.0
32.0	8636	16.5	0.02269	42.2	0.09	315.0	2.4983	226.1	314.5	226.10				24.4	271.6	-0.7	24.4
33.0	8913	16.5	0.02324	42.5	0.09	302.0	2.4800	223.6	314.8	223.61				24.5	269.2	0.4	24.5
33.1	8956	16.5	0.02332	42.8	0.09	300.0	2.4771	223.3	314.9	223.28				24.8	268.8	0.5	24.8
34.0	9244	17.1	0.02391	44.5	0.10	287.0	2.4579	221.1	315.8	221.05				26.3	266.3	1.7	26.2
35.0	9542	13.7	0.02447	36.2	0.08	274.0	2.4378	218.6	316.4	218.56				24.3	267.1	1.2	24.3
36.0	9826	13.0	0.02495	34.9	0.08	262.0	2.4183	215.3	315.7	215.29				25.6	262.1	3.5	25.4
37.0	10119	12.3	0.02541	33.5	0.08	250.0	2.3979	212.7	316.1	212.71				27.5	254.5	7.3	26.5
38.0	10449	11.6	0.02592	32.0	0.08	237.0	2.3747	210.0	316.8	209.98				29.2	252.3	8.9	27.8
39.0	10767	12.9	0.02642	35.7	0.09	225.0	2.3522	208.1	318.7	208.08				33.1	252.1	10.2	31.5
40.0	11070	15.5	0.02698	43.3	0.12	214.0	2.3304	205.9	319.8	205.88				35.4	254.4	9.5	34.1
41.0	11388	26.4	0.02785	74.1	0.22	203.0	2.3075	205.7	324.4	205.68				33.5	258.9	6.4	32.9
41.4	11477	26.9	0.02817	75.3	0.22	200.0	2.3010	206.1	326.5	206.13				32.8	258.9	6.3	32.2
42.0	11630	27.7	0.02871	77.4	0.24	195.0	2.2900	206.9	330.1	206.90				31.7	258.9	6.1	31.1
43.0	11916	36.3	0.02990	101.2	0.32	186.0	2.2695	206.9	334.6	206.90				31.0	260.5	5.1	30.5
44.0	12216	56.5	0.03172	157.1	0.53	177.0	2.2480	207.5	340.3	207.49				23.7	267.7	1.0	23.7
45.0	12496	72.6	0.03407	203.3	0.71	169.0	2.2279	206.1	342.5	206.09				21.2	263.9	2.2	21.1
46.0	12788	78.4	0.03696	220.6	0.81	161.0	2.2068	205.3	345.9	205.26				22.9	249.6	8.0	21.5
47.0	13056	77.8	0.03970	217.4	0.84	154.0	2.1875	206.7	352.8	206.70				27.6	248.2	10.2	25.6
47.6	13215	91.0	0.04156	253.7	1.01	150.0	2.1761	207.0	356.0	207.03				32.2	248.1	12.0	29.9
48.0	13338	101.1	0.04299	281.5	1.14	147.0	2.1673	207.3	358.5	207.29				35.7	248.0	13.4	33.1
49.0	13678	135.1	0.04820	374.8	1.61	139.0	2.1430	208.1	365.7	208.08				35.4	254.6	9.4	34.1

STATION PRIMROSE LAUNCH DATE 21981 LAUNCH TIME 1825 GMT ECC SONDE 3A1520X

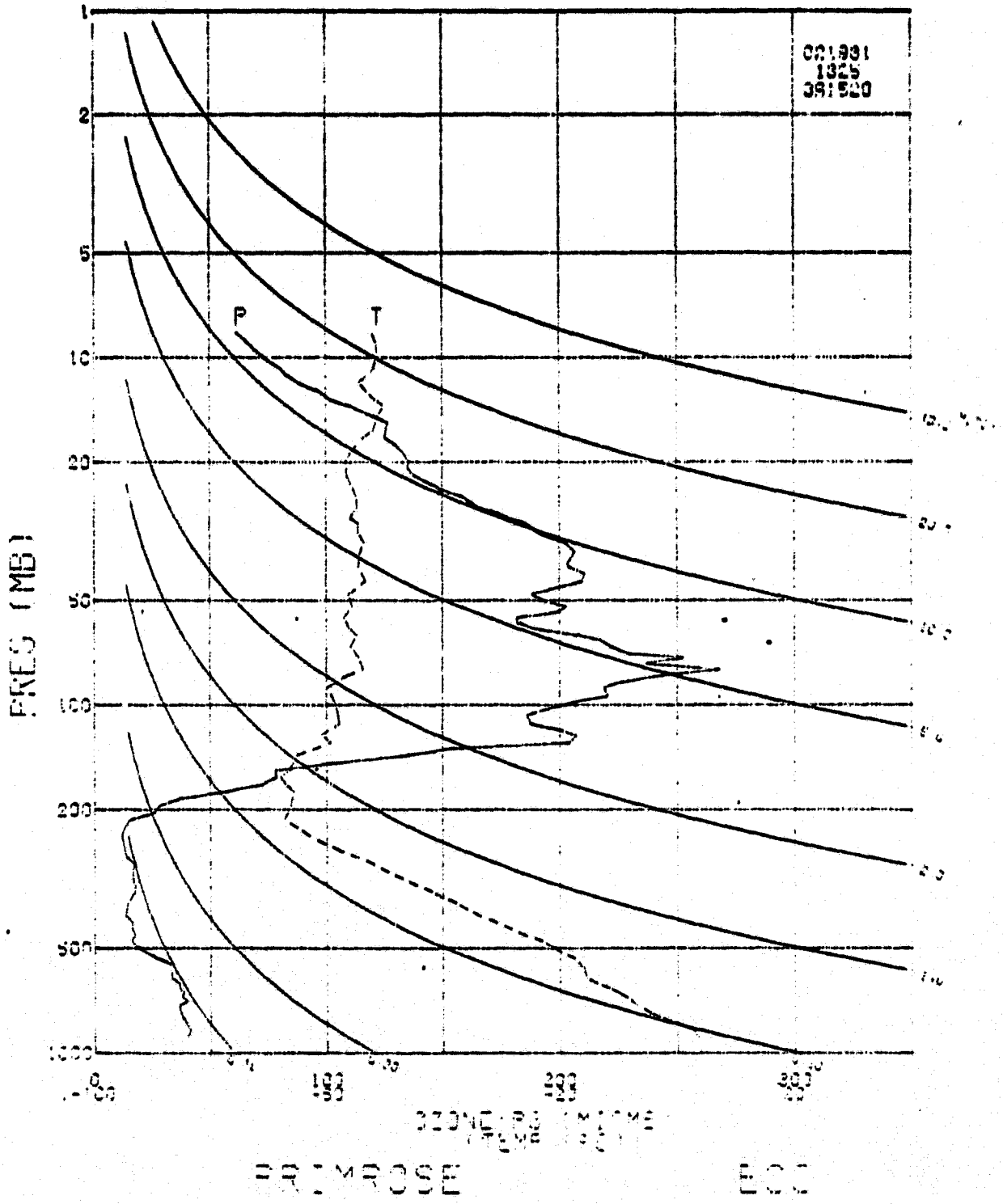
50.0	13947	153.4	0.05322	424.9	1.91	133.0	2.1239	208.5	371.0	208.47	29.8	270.3	-0.1	29.8
51.0	14183	204.1	0.05863	551.2	2.64	128.0	2.1072	213.8	384.6	213.75	27.3	273.9	-1.8	27.2
51.5	14330	205.3	0.06247	556.7	2.72	125.0	2.0969	213.0	385.8	212.97	25.8	275.0	-2.3	25.7
52.0	14482	206.6	0.06641	562.3	2.81	122.0	2.0864	212.2	387.0	212.17	24.2	276.5	-2.7	24.1
53.0	14689	200.2	0.07176	542.9	2.81	118.0	2.0719	212.9	392.0	212.86	27.6	268.6	0.7	27.6
54.0	14960	187.1	0.07837	501.8	2.74	113.0	2.0531	215.3	401.4	215.29	31.3	267.4	1.4	31.3
55.0	15303	185.6	0.08639	498.1	2.87	107.0	2.0294	215.1	407.4	215.12	23.4	276.5	-2.7	23.2
56.0	15542	193.3	0.09209	520.4	3.11	103.0	2.0128	214.4	410.5	214.44	21.8	275.2	-1.9	21.8
56.6	15727	200.7	0.09674	540.2	3.33	100.0	2.0000	214.4	414.0	214.44	22.7	278.9	-0.4	22.7
57.0	15854	205.7	0.09992	553.8	3.48	98.0	1.9912	214.4	416.4	214.44	23.9	268.4	0.7	23.9
58.0	16115	220.1	0.10692	592.5	3.88	94.0	1.9731	214.4	421.4	214.44	31.8	261.7	4.4	30.6
59.0	16457	218.5	0.11638	591.6	4.07	89.0	1.9494	213.2	425.6	213.23	32.3	261.9	4.6	32.0
60.0	16671	225.6	0.12239	608.5	4.35	86.0	1.9345	214.1	431.6	214.10	26.4	262.1	3.6	26.2
61.0	16971	243.5	0.13120	649.0	4.92	82.0	1.9138	216.6	442.6	216.62	27.0	257.9	5.7	26.4
61.7	17128	259.5	0.13618	685.9	5.38	80.0	1.9031	218.4	449.5	218.42	25.4	258.2	5.2	25.1
62.0	17208	267.7	0.13872	704.7	5.62	79.0	1.8976	219.3	453.0	219.35	24.9	258.5	5.0	24.4
63.0	17456	236.5	0.14642	623.0	5.16	76.0	1.8808	219.2	457.7	219.19	24.0	266.8	1.4	24.0
64.0	17714	252.2	0.15419	666.4	5.73	73.0	1.8633	218.6	461.7	218.56	21.4	274.9	-1.8	21.3
65.0	17891	228.7	0.15946	605.0	5.34	71.0	1.8513	218.2	464.7	218.24	23.7	273.7	-1.5	23.6
65.3	17981	226.2	0.16198	599.3	5.35	70.0	1.8451	217.9	465.9	217.92	24.5	272.3	-1.0	24.5
66.0	18166	221.1	0.16712	587.6	5.39	68.0	1.8325	217.3	468.3	217.27	26.3	269.7	0.2	26.3
67.0	18453	217.0	0.17492	576.1	5.53	65.0	1.8129	217.4	474.8	217.43	25.0	271.2	-0.5	25.0
68.0	18652	208.2	0.18016	550.7	5.47	63.0	1.7993	218.2	480.8	218.24	29.2	274.2	-2.1	29.1
69.0	18962	187.3	0.18777	498.3	5.17	60.0	1.7782	216.9	484.7	216.94	25.6	277.9	-3.5	25.2
70.0	19176	181.7	0.19271	485.9	5.19	58.0	1.7634	216.0	487.2	215.96	22.3	275.3	-2.1	22.2
71.0	19398	181.1	0.19773	483.9	5.36	56.0	1.7482	216.1	492.4	216.12	25.3	261.9	3.6	25.1
72.0	19628	198.6	0.20318	528.6	6.10	54.0	1.7324	216.9	499.5	216.94	22.1	263.0	2.7	21.9
73.0	19868	202.6	0.20916	538.1	6.46	52.0	1.7160	217.4	506.0	217.43	23.6	275.7	-2.4	23.4
74.0	20117	192.9	0.21528	513.0	6.39	50.0	1.6990	217.1	511.0	217.11	29.2	277.8	-4.0	28.9
75.0	20376	187.7	0.22141	499.9	6.48	48.0	1.6812	216.8	516.2	216.78	25.7	278.5	-3.8	25.4
76.0	20646	197.9	0.22788	525.5	7.13	46.0	1.6628	217.4	524.1	217.43	23.3	277.9	-3.2	23.1
77.0	20930	209.4	0.23502	550.1	7.89	44.0	1.6435	219.8	536.6	219.82	24.4	277.6	-3.2	24.2
78.0	21229	210.4	0.24273	552.8	8.30	42.0	1.6232	219.8	543.8	219.82	23.6	278.9	-3.6	23.3
79.0	21542	203.8	0.25070	538.3	8.44	40.0	1.6021	218.6	548.2	218.56	16.3	295.5	-7.0	14.7
80.0	21704	203.2	0.25477	535.5	8.63	39.0	1.5911	219.0	553.4	219.03	19.2	289.9	-6.6	18.1
81.0	22041	205.4	0.26325	542.2	9.20	37.0	1.5682	218.7	561.0	218.71	18.9	281.3	-3.7	18.6
82.0	22216	206.0	0.26770	542.6	9.48	36.0	1.5563	219.2	566.6	219.19	18.2	278.0	-2.5	18.0
82.5	22296	204.2	0.27224	537.5	9.67	35.0	1.5441	219.3	571.6	219.34	18.5	277.9	-2.5	18.3
83.0	22583	202.4	0.27691	532.3	9.86	34.0	1.5315	219.5	576.8	219.50	18.7	277.8	-2.5	18.5
84.0	22774	195.9	0.28160	516.7	9.83	33.0	1.5185	218.9	580.1	218.87	13.5	285.6	-3.7	13.0

STATION PRIMROSE LAUNCH DATE 21981 LAUNCH TIME 1825 GMT ECC SONDE 3A1520X

85.0	22971	190.8	0.28629	504.1	9.88	32.0	1.5051	218.6	584.3	218.56	23.5	270.6	-3.5	23.3
86.0	23384	185.0	0.29586	488.7	10.22	30.0	1.4771	218.6	595.2	218.56	24.7	281.8	-5.0	24.2
87.0	23600	178.0	0.30072	472.9	10.17	29.0	1.4624	217.3	597.5	217.27	19.1	289.3	-6.3	18.0
88.0	23823	172.9	0.30558	458.1	10.23	28.0	1.4472	217.9	605.3	217.92	21.0	291.8	-7.8	19.5
89.0	24055	164.8	0.31042	436.0	10.11	27.0	1.4314	218.2	612.5	218.24	29.4	279.9	-5.0	28.9
90.0	24546	157.4	0.32021	416.5	10.43	25.0	1.3979	218.2	626.1	218.24	29.9	276.9	-3.6	29.7
91.0	24806	149.1	0.32514	394.5	10.30	24.0	1.3802	218.2	633.5	218.24	23.7	290.2	-8.2	22.2
92.0	25077	144.5	0.33007	383.9	10.41	23.0	1.3617	217.3	638.4	217.27	25.8	292.5	-9.9	23.8
93.0	25417	137.5	0.33603	366.4	10.45	21.8	1.3385	216.6	646.3	216.62	34.3	288.4	-10.8	32.5
94.0	25714	134.9	0.34108	360.8	10.75	20.8	1.3181	216.0	653.0	215.96	31.7	288.0	-9.8	30.2
94.9	25962	135.2	0.34526	360.7	11.20	20.0	1.3010	216.4	661.7	216.40	29.5	287.6	-8.9	28.1
95.0	25994	135.2	0.34580	360.7	11.26	19.9	1.2989	216.5	662.8	216.45	29.2	287.6	-8.8	27.8
96.0	26355	133.1	0.35181	353.7	11.73	18.8	1.2742	217.3	676.2	217.27	32.0	282.6	-7.0	31.2
97.0	26667	130.1	0.35691	345.3	12.05	17.9	1.2529	217.6	686.8	217.59	29.7	281.2	-5.8	29.2
97.4	26811	127.9	0.35918	338.1	12.10	17.5	1.2430	218.4	693.7	218.36	33.0	282.5	-7.2	32.3
98.0	26997	124.9	0.36210	328.9	12.18	17.0	1.2304	219.3	702.6	219.35	37.3	283.9	-9.0	36.2
99.0	27307	125.4	0.36686	327.3	12.83	16.2	1.2095	221.2	718.4	221.21	37.7	281.3	-7.4	37.0
100.0	27635	126.3	0.37189	329.1	13.59	15.4	1.1875	221.7	730.4	221.66	26.9	280.8	-5.0	26.4
100.6	27805	122.5	0.37444	318.9	13.53	15.0	1.1761	221.8	736.5	221.84	24.6	280.0	-4.3	24.2
101.0	27937	119.6	0.37640	311.0	13.48	14.7	1.1673	222.0	741.2	221.97	22.8	279.3	-3.7	22.5
102.0	28348	110.1	0.38213	284.9	13.21	13.8	1.1399	223.0	758.2	223.02	21.0	275.6	-2.0	20.9
103.0	28637	101.5	0.38584	264.6	12.74	13.2	1.1206	221.5	762.7	221.51	23.0	274.8	-1.9	23.0
104.0	28989	96.6	0.39010	253.5	12.81	12.5	1.0969	220.0	769.3	219.97	27.5	269.4	0.3	27.5
105.0	29359	87.8	0.39429	231.7	12.32	11.8	1.0719	218.7	777.6	218.71	20.5	265.5	1.6	20.4
106.0	29693	82.6	0.39780	217.8	12.22	11.2	1.0492	219.0	790.4	219.03	17.6	265.5	1.4	17.5
107.0	29987	79.8	0.40072	208.2	12.36	10.7	1.0294	221.4	809.3	221.36	23.9	265.5	1.9	23.8
108.0	30297	74.9	0.40365	195.4	12.17	10.2	1.0086	221.4	820.5	221.36	33.9	224.8	24.1	23.9
108.4	30425	73.3	0.40478	191.0	12.14	10.0	1.0000	221.5	825.8	221.54	38.7	238.0	16.3	26.1
109.0	30623	70.8	0.40654	184.2	12.09	9.7	0.9868	221.8	834.1	221.82	29.7	261.6	4.4	29.4
110.0	31109	65.7	0.41057	171.1	12.09	9.0	0.9542	221.7	851.5	221.66	32.2	299.5	-15.9	28.0
111.0	31479	61.4	0.41343	160.4	11.97	8.5	0.9294	221.1	863.2	221.05	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION PRIMROSE LAUNCH DATE 22581 LAUNCH TIME 1800 GMT ECC SONDE 3A1522X

SURFACE CONDITIONS					
PRESS	936.3 MB	OO3 = 30.5	TBOX CAL =	30.0 C	AT 73.9 ORD
TEMP	265.2 K	OIZ = 30.5	BASE CAL =	30.0 C	AT 73.3 ORD
HUMY	85.0 %	OZC = 60.7	HUMIDITY =	62.3 %	AT 46.0 ORD
		IO = 0.002			
		PS = 28.3			

	PROFILE	DOBSON
INTEGRATED OZONE	0.34523	
RESIDUAL OZONE	0.08706	
TOTAL OZONE	0.43229	0.

ADDITIONAL DOBSON INFORMATION

Interpolated Dobson		0.——
Stony Plain	@ 1751	0.416
Ft. Churchill	@ ——	0.——

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRESS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	702	32.4	0.	70.5	0.06	936.3	2.9714	265.1	270.2	265.44	85.4	263.1	0.0019	5.0	140.0	3.8	-3.2
1.0	947	34.5	0.00084	76.1	0.06	907.0	2.9576	262.1	269.5	262.38	100.0	262.1	0.0018	5.7	124.3	3.2	-4.7
1.3	1006	34.0	0.00104	74.9	0.06	900.0	2.9542	261.6	269.6	261.88	100.0	261.6	0.0017	5.8	122.4	3.1	-4.9
2.0	1135	32.7	0.00149	72.5	0.06	885.0	2.9469	260.5	269.8	260.79	100.0	260.5	0.0016	6.0	118.5	2.9	-5.3
3.0	1326	32.3	0.00214	71.9	0.06	863.0	2.9360	259.3	270.4	259.51	100.0	259.3	0.0015	6.1	116.1	2.7	-5.4
3.6	1440	31.7	0.00252	70.8	0.06	850.0	2.9294	258.6	270.9	258.81	100.0	258.6	0.0014	6.0	125.8	3.5	-4.8
4.0	1512	31.3	0.00275	70.1	0.06	842.0	2.9253	258.2	271.2	258.38	100.0	258.2	0.0014	6.0	131.8	4.0	-4.5
5.0	1723	33.6	0.00346	73.6	0.07	819.0	2.9133	263.7	279.2	263.90	61.7	257.7	0.0014	6.7	167.6	6.5	-1.4
5.9	1903	34.2	0.00409	74.8	0.07	800.0	2.9031	263.7	281.0	263.87	51.3	255.5	0.0012	6.4	186.2	6.3	0.7
6.0	1923	34.2	0.00416	75.0	0.07	798.0	2.9020	263.7	281.2	263.86	50.2	255.3	0.0012	6.4	188.3	6.3	0.9
7.0	2148	34.8	0.00496	76.2	0.07	775.0	2.8893	263.5	283.4	263.67	36.6	251.5	0.0009	6.0	194.2	5.8	1.5
8.0	2370	35.9	0.00576	78.8	0.08	753.0	2.8768	263.5	285.8	263.76	59.1	257.1	0.0014	5.2	196.5	5.0	1.5
9.0	2473	36.0	0.00614	79.0	0.08	743.0	2.8710	262.8	286.1	263.04	60.3	256.6	0.0014	6.2	192.7	6.0	1.4
10.0	2790	36.2	0.00731	79.5	0.08	713.0	2.8531	262.7	289.3	262.90	59.2	256.3	0.0014	8.1	197.6	7.7	2.4
10.6	2930	39.2	0.00787	86.4	0.09	700.0	2.8451	261.7	289.8	261.92	60.6	255.6	0.0013	8.0	203.4	7.3	3.2
11.0	3019	41.0	0.00822	90.7	0.10	692.0	2.8401	261.1	290.1	261.31	61.4	255.2	0.0013	8.0	207.2	7.1	3.6
12.0	3265	41.0	0.00927	91.1	0.10	670.0	2.8261	259.8	291.3	260.06	70.3	255.6	0.0014	8.7	211.5	7.4	4.6
13.0	3507	39.9	0.01029	88.6	0.10	649.0	2.8122	259.8	294.0	260.09	76.5	256.6	0.0016	9.3	209.5	8.1	4.6
14.0	3768	34.6	0.01130	77.4	0.09	627.0	2.7973	258.3	295.2	258.47	58.2	251.9	0.0011	8.7	196.0	8.3	2.4
15.0	4012	31.8	0.01215	71.6	0.09	607.0	2.7832	256.5	295.8	256.67	60.9	250.8	0.0010	7.5	184.2	7.4	0.6
15.4	4098	32.0	0.01244	72.1	0.09	600.0	2.7782	255.9	296.1	256.02	63.9	250.7	0.0010	7.3	189.5	7.2	1.2

STATION PRIMROSE LAUNCH DATE 22581 LAUNCH TIME 1800 GMT ECC SONDE 3A1522X

16.0	4250	32.3	0.01295	73.2	0.09	588.0	2.7694	254.7	296.5	254.89	69.2	250.5	0.0010	7.2	199.1	6.8	2.4
17.0	4494	31.7	0.01378	72.2	0.09	569.0	2.7551	253.1	297.4	253.23	60.2	247.4	0.0008	7.7	210.8	6.6	3.9
18.0	4745	30.5	0.01461	70.0	0.09	550.0	2.7404	251.5	298.3	251.63	73.5	248.0	0.0009	9.4	209.3	8.2	4.6
19.0	5003	27.0	0.01541	62.2	0.08	531.0	2.7251	250.2	299.8	250.29	72.9	246.7	0.0008	11.7	217.5	9.3	7.1
20.0	5254	27.6	0.01615	64.3	0.09	513.0	2.7101	248.4	300.6	248.56	83.5	246.5	0.0008	11.1	224.3	7.9	7.7
20.8	5439	26.4	0.01670	61.7	0.09	500.0	2.6990	246.8	300.9	246.90	64.3	242.0	0.0005	10.9	224.9	7.7	7.7
21.0	5498	26.0	0.01687	60.9	0.09	496.0	2.6955	246.3	300.9	246.39	58.2	240.6	0.0005	10.8	225.1	7.6	7.7
22.0	5763	25.4	0.01762	60.0	0.09	478.0	2.6794	244.2	301.5	244.24	41.7	235.3	0.0003	11.0	225.9	7.7	7.9
23.0	6036	24.8	0.01838	59.2	0.09	460.0	2.6628	241.9	302.1	241.97				10.5	230.7	6.6	8.1
24.0	6301	26.6	0.01914	64.1	0.10	443.0	2.6464	239.8	302.6	239.84				9.9	238.3	5.2	8.4
25.0	6542	24.8	0.01984	60.2	0.10	428.0	2.6314	238.1	303.4	238.11				9.7	242.4	4.5	8.6
26.0	6806	24.2	0.02058	59.4	0.10	412.0	2.6149	235.4	303.3	235.41	22.7	221.9	0.0001	9.9	236.5	5.5	8.3
26.8	7008	23.3	0.02113	57.6	0.10	400.0	2.6021	233.4	303.3	233.45				10.2	233.1	6.2	8.2
27.0	7060	23.0	0.02127	57.1	0.10	397.0	2.5988	232.9	303.3	232.95				10.3	232.2	6.3	8.2
28.0	7356	21.[illegible]	0.02204	54.7	0.10	380.0	2.5798	230.3	303.7	230.31				10.0	233.8	5.9	8.0
29.0	7607	20.6	0.02267	52.2	0.09	366.0	2.5635	228.0	303.9	228.05				9.4	234.7	5.4	7.7
30.0	7866	19.4	0.02329	49.7	0.09	352.0	2.5465	225.6	304.0	225.58				11.4	232.0	7.0	9.0
30.1	7903	19.3	0.02337	49.6	0.09	350.0	2.5441	225.2	304.0	225.25				11.8	231.3	7.4	9.2
31.0	8132	18.8	0.02390	48.6	0.09	338.0	2.5289	223.2	304.3	223.20				14.0	227.9	9.4	10.4
32.0	8407	19.3	0.02454	50.5	0.10	324.0	2.5105	221.0	305.0	221.05				14.1	228.2	9.4	10.5
33.0	8650	18.7	0.02510	49.3	0.10	312.0	2.4942	219.3	305.9	219.31				12.2	236.5	6.7	10.2
34.0	8879	21.1	0.02567	55.9	0.12	301.0	2.4786	217.5	306.5	217.53				13.2	240.3	6.6	11.5
34.1	8900	21.8	0.02573	57.9	0.12	300.0	2.4771	217.6	306.9	217.58				13.6	239.2	7.0	11.7
35.0	9138	30.5	0.02649	80.7	0.17	289.0	2.4609	218.2	311.1	218.18				18.2	230.6	11.6	14.1
36.0	9430	22.2	0.02745	59.5	0.13	276.0	2.4409	215.9	311.8	215.86				29.5	224.3	21.2	20.6
37.0	9639	29.9	0.02813	79.8	0.19	267.0	2.4265	216.4	315.5	216.36				22.7	234.5	13.2	18.5
38.0	9880	32.7	0.02908	87.2	0.21	257.0	2.4099	216.2	318.7	216.19				16.2	257.5	3.5	15.8
38.7	10054	40.5	0.02991	108.1	0.27	250.0	2.3979	216.2	321.3	216.19				19.4	253.6	5.5	18.7
39.0	10131	43.9	0.03028	117.2	0.29	247.0	2.3927	216.2	322.4	216.19				20.9	252.2	6.4	19.9
40.0	10366	59.9	0.03180	158.8	0.42	238.0	2.3766	217.7	328.1	217.69				18.0	266.5	1.1	17.9
41.0	10611	105.5	0.03431	280.1	0.76	229.0	2.3598	217.5	331.4	217.53				15.0	275.0	-1.3	14.9
42.0	10845	109.1	0.03809	289.7	0.83	219.0	2.3404	217.5	335.7	217.53				13.5	262.6	1.7	13.4
43.0	11164	92.9	0.04144	242.7	0.73	210.0	2.3222	221.0	345.3	221.05				12.0	259.8	2.1	11.8
44.0	11414	80.9	0.04410	212.7	0.66	202.0	2.3054	219.6	346.9	219.63				9.6	266.4	0.6	9.6
44.2	11477	84.4	0.04480	222.0	0.70	200.0	2.3010	219.6	347.9	219.63				9.3	265.2	0.8	9.3
45.0	11707	97.0	0.04730	255.0	0.83	193.0	2.2856	219.6	351.4	219.63				8.1	260.4	1.4	8.0
46.0	11876	124.0	0.04959	322.9	1.09	188.0	2.2742	221.7	357.3	221.67				11.1	254.5	3.0	10.7
47.0	12122	127.0	0.05335	330.1	1.16	181.0	2.2577	222.1	362.0	222.13				11.6	256.3	2.7	11.2
48.0	12304	128.9	0.05617	335.1	1.21	176.0	2.2455	222.1	364.9	222.13				11.1	256.9	2.9	10.7
49.0	12529	131.6	0.05974	341.5	1.28	170.0	2.2304	222.4	369.0	222.44				13.8	258.5	4.6	13.0

STATION PRIMROSE LAUNCH DATE 22581 LAUNCH TIME 1800 GMT ECC SONDE 3A1522X

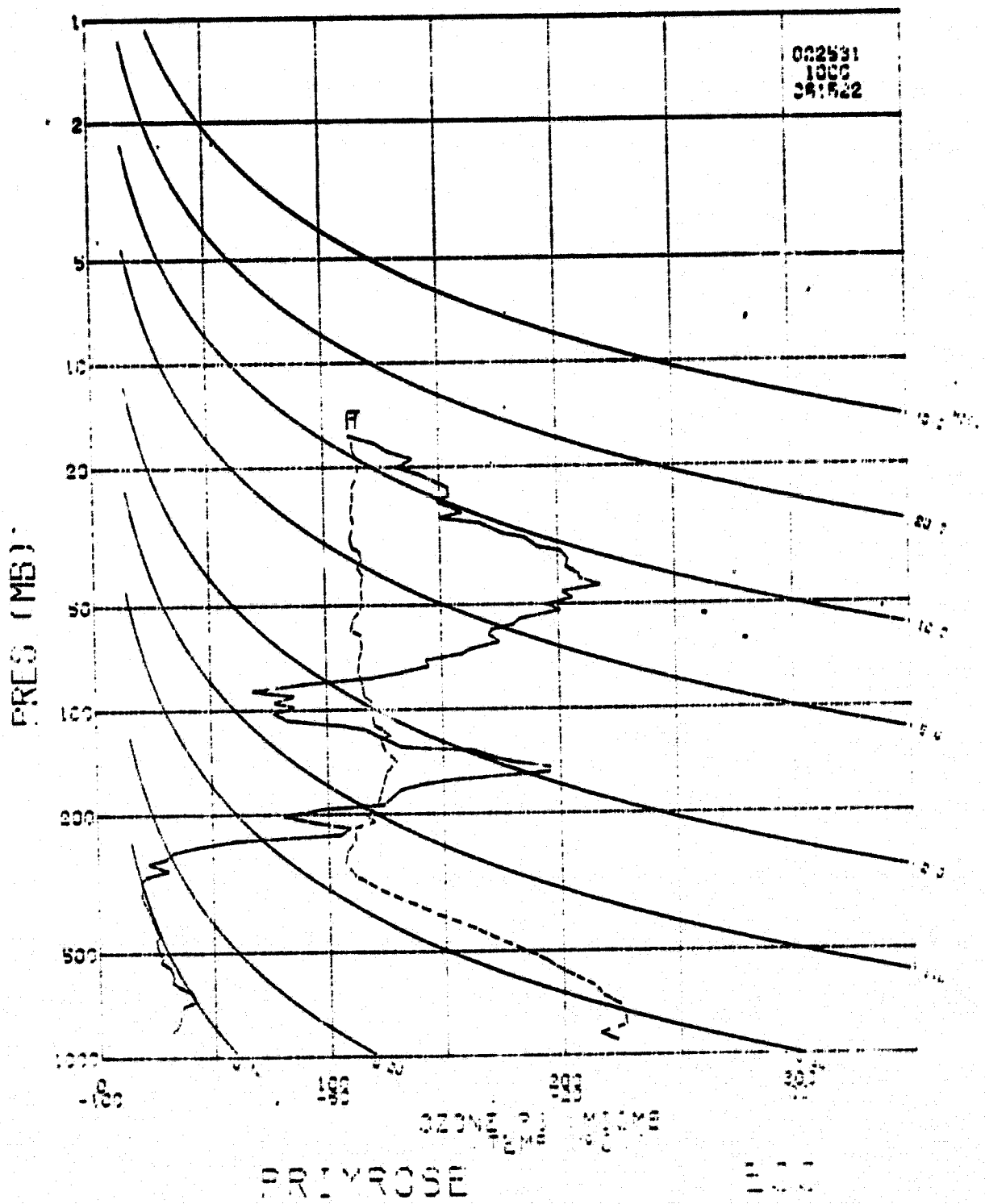
50.0	12803	143.0	0.06429	370.6	1.45	163.0	2.2122	222.7	374.0	222.74	11.5	251.7	3.6	10.9
51.0	12965	156.2	0.06723	404.8	1.63	159.0	2.2014	222.7	376.7	222.74	11.9	249.9	4.1	11.2
52.0	13259	195.2	0.07347	504.8	2.13	152.0	2.1818	223.2	382.3	223.20	11.8	248.7	4.3	10.9
52.4	13345	195.3	0.07551	504.3	2.16	150.0	2.1761	223.6	384.4	223.56	11.7	250.0	4.0	11.0
53.0	13478	195.5	0.07862	503.6	2.20	147.0	2.1673	224.1	387.6	224.10	11.6	252.1	3.6	11.1
54.0	13752	177.1	0.08475	454.4	2.08	141.0	2.1492	225.0	393.8	224.99	12.7	260.1	2.2	12.5
55.0	13989	169.0	0.08968	435.4	2.06	136.0	2.1335	224.1	396.3	224.10	13.4	269.3	0.2	13.4
56.0	14234	162.0	0.09457	419.4	2.05	131.0	2.1173	223.0	398.7	223.05	11.2	269.7	0.1	11.2
57.0	14385	131.8	0.09725	341.4	1.71	128.0	2.1072	222.9	401.0	222.90	9.9	257.3	2.2	9.7
57.5	14539	128.7	0.09966	333.9	1.71	125.0	2.0969	222.6	403.2	222.59	11.2	252.5	3.4	10.6
58.0	14697	125.6	0.10213	326.3	1.71	122.0	2.0864	222.3	405.5	222.28	12.5	248.5	4.6	11.6
59.0	14859	121.6	0.10456	313.5	1.69	119.0	2.0755	224.0	411.4	223.95	13.9	256.5	3.3	13.5
60.0	15139	116.0	0.10858	300.8	1.69	114.0	2.0569	222.6	414.0	222.59	12.4	268.1	0.4	12.4
61.0	15312	106.2	0.11092	277.1	1.59	111.0	2.0453	221.2	414.5	221.20	10.6	259.5	1.9	10.4
62.0	15549	82.8	0.11365	215.7	1.28	107.0	2.0294	221.5	419.5	221.51	12.8	248.8	4.6	11.9
63.0	15859	77.0	0.11667	201.3	1.25	102.0	2.0086	220.9	424.1	220.89	11.0	263.2	1.3	10.9
63.5	15987	81.3	0.11794	212.4	1.35	100.0	2.0000	221.1	426.9	221.12	11.0	266.9	0.6	11.0
64.0	16118	85.7	0.11924	223.6	1.45	98.0	1.9912	221.4	429.9	221.36	11.0	270.6	-0.1	11.0
65.0	16319	77.5	0.12124	202.7	1.35	95.0	1.9777	220.7	432.5	220.74	14.4	265.9	1.0	14.4
66.0	16596	85.7	0.12401	225.4	1.56	91.0	1.9590	219.5	435.3	219.47	12.3	275.3	-1.1	12.3
67.0	16811	67.8	0.12604	178.9	1.28	88.0	1.9445	218.8	438.2	218.83	6.8	275.5	-0.6	6.7
68.0	17109	90.6	0.12895	238.7	1.79	84.0	1.9243	219.2	444.7	219.15	2.6	252.4	0.8	2.5
69.0	17342	119.3	0.13196	314.2	2.44	81.0	1.9085	219.3	449.7	219.31	1.7	281.4	-0.3	1.7
69.3	17421	123.7	0.13320	326.1	2.56	80.0	1.9031	219.0	450.8	219.05	2.9	272.0	-0.1	2.9
70.0	17583	132.6	0.13571	350.4	2.82	78.0	1.8921	218.5	452.9	218.51	5.3	265.7	0.4	5.3
71.0	17834	144.1	0.14000	380.0	3.18	75.0	1.8751	219.0	459.0	218.99	6.9	254.6	1.8	6.7
72.0	18095	143.1	0.14462	377.8	3.29	72.0	1.8573	218.7	463.7	218.67	5.5	252.4	1.7	5.3
72.7	18275	153.5	0.14798	405.9	3.64	70.0	1.8451	218.3	466.8	218.35	3.6	259.5	0.6	3.5
73.0	18367	158.8	0.14969	420.3	3.81	69.0	1.8388	218.2	468.4	218.18	2.6	267.2	0.1	2.6
74.0	18555	162.4	0.15342	427.9	4.02	67.0	1.8261	219.2	474.4	219.15	4.4	255.9	1.1	4.3
75.0	18849	174.4	0.15951	459.4	4.51	64.0	1.8062	219.2	480.7	219.15	8.2	248.9	2.9	7.6
76.0	19157	170.1	0.16603	448.6	4.62	61.0	1.7853	219.0	486.9	218.99	5.4	267.1	0.3	5.4
76.5	19262	170.8	0.16826	451.9	4.72	60.0	1.7782	218.2	487.4	218.18	3.4	286.1	-0.9	3.3
77.0	19370	171.4	0.17052	455.3	4.81	59.0	1.7709	217.4	487.9	217.36	2.4	333.6	-2.2	1.1
78.0	19589	180.8	0.17531	479.5	5.26	57.0	1.7559	217.7	493.5	217.69	0.1	240.8	0.0	0.1
79.0	19816	183.3	0.18045	486.3	5.52	55.0	1.7404	217.7	498.6	217.69	4.2	240.9	2.0	3.6
80.0	20174	200.5	0.18894	528.6	6.39	52.0	1.7160	219.0	509.7	218.99	5.1	269.6	0.0	5.1
81.0	20425	194.7	0.19505	514.4	6.45	50.0	1.6990	218.5	514.3	218.51	2.9	265.8	0.2	2.9
82.0	20686	205.7	0.20150	541.6	7.10	48.0	1.6812	219.3	522.2	219.31	0.6	134.8	0.5	-0.5
83.0	20959	201.6	0.20834	531.8	7.26	46.0	1.6628	218.8	527.4	218.83	3.0	61.1	-1.4	-2.6

STATION PRIMROSE LAUNCH DATE 22581 LAUNCH TIME 1800 GMT ECC SONDE 3A1522X

84.0	21244	217.7	0.21570	573.5	8.20	44.0	1.6435	219.2	535.0	219.15	0.8	289.0	-0.3	0.8
85.0	21542	209.1	0.22353	552.5	8.25	42.0	1.6232	218.5	540.5	218.51	1.4	241.1	0.7	1.2
86.0	21696	208.7	0.22750	549.0	8.43	41.0	1.6128	219.5	546.7	219.47	2.3	115.0	1.0	-2.1
86.5	21853	206.0	0.23151	542.9	8.53	40.0	1.6021	219.1	549.6	219.08	2.2	154.1	1.9	-0.9
87.0	22016	203.2	0.23563	536.5	8.63	39.0	1.5911	218.7	552.5	218.67	3.0	184.1	2.9	0.2
88.0	22353	204.0	0.24409	537.1	9.14	37.0	1.5682	219.3	562.5	219.31	2.5	210.6	2.1	1.2
89.0	22709	200.8	0.25296	529.5	9.51	35.0	1.5441	219.0	570.7	218.99	1.3	348.6	-1.3	0.3
90.0	22894	190.8	0.25744	506.2	9.30	34.0	1.5315	217.7	572.0	217.69	3.3	263.2	0.4	3.2
91.0	23280	185.5	0.26644	492.7	9.61	32.0	1.5051	217.4	581.1	217.36	2.1	276.8	-0.3	2.1
92.0	23481	175.8	0.27097	467.8	9.40	31.0	1.4914	217.0	585.5	217.03	2.0	353.6	-2.0	0.2
92.5	23689	171.4	0.27540	455.0	9.46	30.0	1.4771	217.5	592.4	217.52	1.8	17.8	-1.7	-0.6
93.0	23905	166.8	0.27998	441.7	9.53	29.0	1.4624	218.0	599.5	218.02	2.0	43.2	-1.5	-1.4
94.0	24128	150.1	0.28437	398.0	8.88	28.0	1.4472	217.7	604.7	217.69	1.9	136.2	1.4	-1.3
95.0	24359	159.0	0.28881	422.0	9.76	27.0	1.4314	217.5	610.5	217.53	4.6	198.7	4.4	1.5
96.0	24849	148.8	0.29815	394.4	9.86	25.0	1.3979	217.9	625.0	217.86	1.3	156.0	1.1	-0.5
97.0	25056	153.5	0.30203	405.9	10.51	24.2	1.3838	218.3	632.3	218.34	1.4	354.6	-1.4	0.1
98.0	25408	153.2	0.30871	406.0	11.08	22.9	1.3598	217.9	640.9	217.86	2.7	284.6	-0.7	2.6
99.0	25692	147.4	0.31401	391.1	11.15	21.9	1.3404	217.5	648.1	217.53	1.7	68.9	-0.8	-1.5
100.0	25990	140.7	0.31932	370.8	11.15	20.9	1.3201	219.0	661.3	218.99	3.3	72.0	-1.0	-3.1
101.0	26272	132.0	0.32405	347.3	10.94	20.0	1.3010	219.5	671.1	219.47	5.7	340.7	-5.3	1.9
102.0	26634	138.0	0.33008	364.4	12.10	18.9	1.2765	218.7	679.6	218.67	2.9	48.6	-1.9	-2.2
103.0	26981	127.0	0.33576	336.3	11.75	17.9	1.2529	218.0	688.1	218.02	4.2	123.7	2.3	-3.5
103.4	27125	124.6	0.33798	330.1	11.80	17.5	1.2430	217.9	692.4	217.95	2.7	96.7	0.3	-2.6
104.0	27310	121.6	0.34082	322.2	11.85	17.0	1.2304	217.9	697.8	217.86	2.8	34.8	-2.3	-1.6
105.0	27617	110.2	0.34523	292.2	11.28	16.2	1.2095	217.9	707.5	217.86	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY



STATION NATAL BR LAUNCH DATE 11681 LAUNCH TIME 1248 GMT ECC SONDE 3A1108X

SURFACE CONDITIONS
PRESS 1007.1 MB
TEMP 301.5 K
HUMY 69.0 %

O3 = 31.6
OIZ = 30.3
OZC = 61.4
IO = 0.212
PS = 2[illegible].8

TBOX CAL = 30.0 C AT 73.6 ORD
BASE CAL = 30.0 C AT 73.1 ORD
HUMIDITY = 61.0 % AT 46.0 ORD

	PROFILE	DOBSON
INTEGRATED OZONE	0.23203	
RESIDUAL OZONE	0.06873	
TOTAL OZONE	0.30077	0.

NO DOBSON AVAILABLE

TIME MIN	ALT GP MT	OZONE MICMB	TOTOZ ATMCM	OZDEN GAMMA	OZMXR MICGG	PRESS MB	LOG PRLSS	TEMP DEG K	PTEMP DEG K	VTEMP DEG K	HUMTY PRCNT	DEWPT DEG K	SPECIF HUMTY	SPD MPS	DIR DEG	NS MPS	EW MPS
0.	42	8.0	0.	15.4	0.01	1007.1	3.0031	301.4	300.8	304.14	62.3	293.5	0.0149	5.0	120.0	2.5	-4.3
0.3	104	8.3	0.00005	15.9	0.01	1000.0	3.0000	300.7	300.7	303.49	64.9	293.5	0.0150	1.9	110.4	0.7	-1.8
1.0	293	9.0	0.00019	17.4	0.02	979.0	2.9908	298.7	300.6	301.53	72.5	293.4	0.0152	7.6	309.6	-4.8	5.9
2.0	529	9.5	0.00039	18.5	0.02	953.0	2.9791	295.8	299.9	298.44	82.2	292.6	0.0148	7.2	309.6	-4.6	5.5
3.0	769	12.0	0.00062	23.6	0.02	927.0	2.9671	292.9	299.3	295.15	80.0	289.4	0.0124	9.1	311.6	-6.0	6.8
4.0	1014	16.1	0.00094	31.9	0.03	901.0	2.9547	291.4	300.3	293.06	62.0	284.1	0.0090	10.8	313.1	-7.4	7.9
4.0	1023	16.1	0.00095	31.9	0.03	900.0	2.9542	291.4	300.3	292.97	62.3	284.0	0.0090	10.8	313.2	-7.4	7.9
5.0	1274	16.7	0.00133	33.3	0.03	874.0	2.9415	289.2	300.5	290.81	70.2	283.8	0.0091	10.8	315.5	-7.7	7.6
5.9	1510	16.8	0.00170	33.5	0.03	850.0	2.9294	288.8	302.6	290.27	62.4	281.7	0.0081	9.7	312.5	-6.6	7.2
6.0	1530	16.8	0.00173	33.6	0.03	848.0	2.9284	288.8	302.7	290.22	61.8	281.5	0.0081	9.7	312.2	-6.5	7.1
7.0	1743	20.9	0.00210	41.8	0.04	827.0	2.9175	289.0	305.1	289.99	41.4	275.9	0.0056	9.4	303.3	-5.2	7.8
8.0	1961	23.5	0.00255	46.8	0.05	806.0	2.9063	289.8	308.2	290.09				7.9	292.8	-3.1	7.3
8.3	2024	25.0	0.00271	49.9	0.05	800.0	2.9031	289.7	308.8	290.08				7.2	288.0	-2.2	6.9
9.0	2185	28.9	0.00310	57.7	0.06	785.0	2.8949	289.6	310.3	290.04				5.8	271.4	-0.1	5.8
10.0	2426	31.7	0.00378	63.5	0.07	763.0	2.8825	288.8	312.0	289.32	20.5	266.2	0.0030	6.5	252.9	1.9	6.2
11.0	2661	32.4	0.00448	65.2	0.07	742.0	2.8704	286.6	312.2	287.20	24.5	266.8	0.0032	7.0	230.7	4.5	5.4
12.0	2901	31.2	0.00520	63.1	0.07	721.0	2.8579	284.9	312.8	285.63	33.6	269.5	0.0040	7.2	200.7	6.7	2.5
13.0	3147	32.4	0.00595	66.2	0.08	700.0	2.8451	283.1	313.4	283.95	46.2	272.1	0.0050	6.9	188.5	6.8	1.8
14.0	3375	31.8	0.00664	65.4	0.08	681.0	2.8331	281.3	313.9	282.18	53.5	272.4	0.0053	5.3	201.5	5.0	2.0
15.0	3608	30.3	0.00734	62.5	0.08	662.0	2.8209	279.5	314.5	280.41	57.7	271.8	0.0052	3.9	232.2	2.4	3.1
16.0	3833	30.3	0.00800	62.9	0.08	644.0	2.8089	277.8	315.0	278.64	60.0	270.7	0.0049	2.6	259.0	0.5	2.6

STATION NATAL BR LAUNCH DATE 11681 LAUNCH TIME 1248 GMT ECC SONDE 3A1108X

17.0	4063	29.0	0.00866	60.5	0.08	626.0	2.7966	276.1	315.7	276.90	60.9	269.3	0.0046	3.6	267.1	0.?	3.6
18.0	4312	28.4	0.00935	59.7	0.08	607.0	2.7832	274.2	316.2	274.85	60.9	267.5	0.0041	4.8	274.5	-0.4	4.8
18.4	4405	28.5	0.00962	60.0	0.08	600.0	2.7782	273.9	316.9	274.54	59.9	267.0	0.0039	4.9	278.5	-0.7	4.8
19.0	4567	28.7	0.01007	60.6	0.08	588.0	2.7694	273.4	318.1	273.99	58.2	266.1	0.0038	5.0	285.3	-1.3	4.9
20.0	4830	29.9	0.01083	63.3	0.09	569.0	2.7551	273.2	321.0	273.46	23.4	254.7	0.0016	4.2	288.7	-1.3	3.9
21.0	5101	29.4	0.01163	62.6	0.09	550.0	2.7404	271.3	321.8	271.57	27.0	254.8	0.0016	1.0	271.7	-0.0	1.0
22.0	5379	28.9	0.01243	62.0	0.09	531.0	2.7251	269.1	322.5	269.42	32.8	255.2	0.0017	2.5	110.9	0.9	-2.4
23.0	5665	28.3	0.01326	61.2	0.09	512.0	2.7093	266.9	323.1	267.11	31.2	252.6	0.0014	5.9	95.7	0.6	-5.9
23.6	5849	28.2	0.01379	61.4	0.09	500.0	2.6990	265.6	323.7	265.74	24.8	248.7	0.0009	8.2	86.0	-0.6	-8.2
24.0	5975	28.2	0.01415	61.5	0.09	492.0	2.6920	264.7	324.1	264.80	20.5	246.0	0.0008	9.8	82.1	-1.3	-9.7
25.0	6230	30.7	0.01491	67.4	0.11	476.0	2.6776	263.1	325.2	263.11				13.8	72.8	-4.1	-13.1
26.0	6526	29.4	0.01583	65.0	0.11	458.0	2.6609	261.4	326.7	261.40				17.4	71.6	-5.5	-16.5
27.0	6814	24.0	0.01662	53.2	0.09	441.0	2.6444	259.9	328.5	260.24	59.6	253.8	0.0019	20.3	79.0	-3.9	-19.9
28.0	7130	20.8	0.01736	46.5	0.08	42[illegible].0	2.6263	258.4	330.4	258.75	74.6	254.9	0.0021	20.5	93.2	1.1	-20.5
29.0	7439	17.0	0.01[illegible]97	38.2	0.07	4[illegible]	2.6085	256.9	332.4	257.30	97.9	256.6	0.0026	19.9	103.2	4.5	-19.4
29.4	7550	17.0	0.01817	38.3	0.07	400.[illegible]	2.6021	256.1	332.8	256.52	98.0	255.9	0.0024	19.6	104.4	4.9	-19.0
30.0	7740	17.0	0.01851	38.5	0.07	390.0	2.5911	254.8	333.5	255.19	98.2	254.6	0.0023	19.1	106.6	5.5	-18.3
31.0	8071	18.4	0.01913	41.9	0.08	373.0	2.5717	252.7	334.9	252.97	96.1	252.2	0.0019	19.3	112.0	7.2	-17.9
32.0	8415	18.4	0.01981	42.3	0.09	356.0	2.5515	250.4	336.4	250.64	90.1	249.2	0.0015	19.9	117.1	9.1	-17.7
32.3	8539	18.8	0.02006	43.5	0.09	350.0	2.5441	249.5	336.8	249.74	88.3	248.1	0.0014	20.0	117.5	9.2	-17.7
33.0	8772	19.6	0.02054	45.6	0.10	339.0	2.5302	247.9	337.6	248.05	84.9	246.1	0.0012	20.2	118.2	9.5	-17.8
34.0	9165	20.1	0.02140	47.4	0.10	321.0	2.5065	244.8	338.7	244.96	80.7	242.5	0.0009	21.0	118.1	9.9	-18.6
35.0	9576	19.5	0.02230	46.5	0.11	303.0	2.4814	241.4	339.5	241.47	76.8	238.7	0.0007	23.3	114.9	9.8	-21.1
35.2	9645	19.4	0.02245	46.7	0.11	300.0	2.4771	240.5	339.2	240.58	74.0	237.4	0.0006	23.7	112.7	9.1	-21.9
36.0	9883	19.4	0.02297	47.2	0.11	290.0	2.4624	237.5	338.3	237.55	64.4	233.2	0.0004	25.2	105.7	6.8	-24.3
37.0	10224	20.2	0.02374	49.8	0.12	276.0	2.4409	234.2	338.4	234.28	51.1	228.0	0.0002	28.4	91.5	0.7	-28.4
38.0	10579	19.1	0.02455	47.6	0.12	262.0	2.4183	232.0	340.2	232.04				33.8	82.0	-4.7	-33.5
38.9	10895	18.3	0.02524	46.0	0.12	250.0	2.3979	230.1	342.0	230.12				35.5	78.7	-7.0	-34.8
39.0	10950	18.2	0.02536	45.7	0.12	248.0	2.3945	229.8	342.3	229.79				35.8	78.1	-7.4	-35.0
40.0	11253	15.6	0.02596	39.6	0.11	237.0	2.3747	227.6	343.5	227.65				37.4	74.7	-9.9	-36.0
41.0	11597	14.9	0.02659	38.2	0.11	225.0	2.3522	225.3	345.0	225.31				36.8	72.5	-11.0	-35.1
42.0	11926	14.9	0.02718	38.6	0.12	214.0	2.3304	222.9	346.3	222.90				35.8	70.2	-12.1	-33.7
43.0	12268	16.6	0.02783	43.4	0.14	203.0	2.3075	220.6	347.9	220.57				37.1	67.0	-14.5	-34.1
43.3	12363	16.8	0.02803	44.2	0.14	200.0	2.3010	219.8	348.1	219.77				28.9	61.1	-14.0	-25.3
44.0	12559	17.3	0.02844	45.8	0.15	194.0	2.2878	218.2	348.5	218.15				14.9	29.6	-12.9	-7.3
45.0	12861	18.7	0.02911	49.9	0.17	185.0	2.2672	216.0	349.8	215.98				34.2	61.7	-16.2	-30.1
46.0	13174	19.2	0.02986	51.8	0.16	176.0	2.2455	213.9	351.4	213.89				56.4	76.3	-13.4	-54.8
47.0	13501	18.8	0.03065	51.3	0.19	167.0	2.2227	211.7	353.1	211.72				30.8	79.2	-5.8	-30.3
48.0	13842	20.2	0.03150	55.5	0.21	158.0	2.1987	209.6	355.2	209.64				28.4	75.2	-7.3	-27.7
48.9	14159	19.1	0.03230	53.0	0.21	150.0	2.1761	207.7	357.2	207.71				27.8	89.2	-0.4	-27.8

STATION NATAL BR LAUNCH DATE 11681 LAUNCH TIME 1248 GMT ECC SONDE 3A1108X

49.0	14200	18.9	0.03240	52.7	0.21	149.0	2.1732	207.5	357.4	207.46	27.8	91.0	0.5	-27.8
50.0	14533	17.7	0.03320	49.8	0.21	141.0	2.1492	205.8	360.2	205.80	32.7	105.0	8.5	-31.6
51.0	14884	17.4	0.03401	49.1	0.22	133.0	2.1239	205.2	365.1	205.16	29.3	101.4	5.8	-28.7
52.0	15255	17.8	0.03487	50.3	0.24	125.0	2.0969	203.6	368.8	203.62	19.0	93.1	1.0	-18.9
53.0	15498	19.5	0.03547	55.5	0.27	120.0	2.0792	202.9	371.9	202.94	14.4	83.5	-1.6	-14.3
54.0	15958	20.2	0.03669	58.0	0.30	111.0	2.0453	200.6	375.9	200.59	16.3	75.2	-4.2	-15.8
55.0	16451	18.3	0.03798	53.4	0.30	102.0	2.0086	198.1	380.3	198.07	11.4	65.4	-4.8	-10.4
55.4	16565	18.3	0.03826	53.4	0.30	100.0	2.0000	197.3	381.0	197.33	9.6	64.6	-4.1	-8.7
56.0	16741	18.2	0.03870	53.5	0.31	97.0	1.9868	196.2	382.1	196.18	6.8	62.4	-3.1	-6.0
57.0	17100	18.6	0.03961	55.0	0.34	91.1	1.9595	195.3	387.3	195.34	4.8	68.4	-1.8	-4.5
58.0	17481	18.4	0.04059	55.0	0.36	85.2	1.9304	193.3	390.6	193.28	2.7	41.3	-2.1	-1.8
58.9	17836	20.3	0.04156	60.7	0.42	80.0	1.9031	192.7	396.6	192.75	5.3	319.2	-4.0	3.4
59.0	17886	20.5	0.04169	61.5	0.43	79.3	1.8993	192.7	397.5	192.67	6.0	315.6	-4.3	4.2
60.0	18318	27.3	0.04312	80.2	0.62	73.5	1.8663	196.5	414.2	196.46	8.7	286.2	-2.4	8.4
60.7	18600	31.9	0.04431	92.6	0.76	70.0	1.8451	198.7	424.9	198.71	5.8	281.9	-1.2	5.7
61.0	18743	34.2	0.04491	98.8	0.83	68.3	1.8344	199.9	430.3	199.85	4.3	277.5	-0.6	4.3
62.0	19117	43.3	0.04685	123.4	1.12	64.1	1.8069	202.7	444.4	202.71	2.8	319.3	-2.1	1.8
63.0	19512	53.2	0.04937	149.4	1.47	60.0	1.7782	205.7	459.6	205.72	3.5	39.4	-2.7	-2.2
63.0	19522	53.5	0.04943	150.0	1.48	59.9	1.7774	205.8	460.0	205.80	3.6	40.5	-2.7	-2.3
64.0	19973	64.1	0.05289	177.5	1.91	55.6	1.7451	208.5	476.0	208.46	8.8	65.5	-3.6	-8.0
65.0	20466	71.8	0.05721	197.3	2.32	51.3	1.7101	210.2	491.1	210.22	7.0	55.7	-3.9	-5.8
65.4	20624	74.9	0.05874	205.3	2.49	50.0	1.6990	210.6	495.8	210.64	5.1	53.9	-3.0	-4.1
66.0	20889	80.0	0.06131	218.5	2.77	47.9	1.6803	211.3	503.6	211.35	2.0	43.7	-1.4	-1.4
67.0	21289	88.4	0.06561	241.4	3.26	44.9	1.6522	211.5	513.4	211.54	3.2	80.8	-0.5	-3.2
68.0	21732	93.3	0.07074	254.3	3.70	41.8	1.6212	211.7	524.5	211.72	4.7	57.7	-2.5	-4.0
68.6	22005	96.8	0.07408	263.6	4.02	40.0	1.6021	211.9	531.7	211.93	3.5	33.8	-2.9	-1.9
69.0	22210	99.4	0.07660	270.6	4.26	38.7	1.5877	212.1	537.1	212.09	3.2	7.3	-3.2	-0.4
70.0	22729	103.0	0.08326	279.2	4.79	35.6	1.5515	213.0	552.4	213.00	1.2	290.3	-0.4	1.1
70.2	22835	103.9	0.08467	281.3	4.92	35.0	1.5441	213.2	555.7	213.21	0.7	262.0	0.1	0.7
71.0	23279	107.5	0.09057	289.9	5.46	32.6	1.5132	214.1	569.3	214.07	2.5	157.5	2.3	-1.0
72.0	23801	110.4	0.09772	296.5	6.10	30.0	1.4771	214.9	585.3	214.91	6.0	145.3	4.9	-3.4
72.0	23822	110.5	0.09801	296.8	6.12	29.9	1.4757	214.9	585.9	214.95	6.1	145.1	5.0	-3.5
73.0	24236	108.3	0.10368	289.1	6.41	28.0	1.4472	216.3	600.8	216.32	3.0	134.8	2.1	-2.1
74.0	24632	108.0	0.10902	289.4	6.81	26.3	1.4200	215.5	609.3	215.47	3.7	350.9	-3.6	0.6
74.8	24951	111.7	0.11343	300.1	7.41	25.0	1.3979	214.9	616.6	214.91	6.2	326.8	-5.2	3.4
75.0	25027	112.6	0.11448	302.6	7.55	24.7	1.3927	214.8	618.3	214.77	6.8	323.8	-5.5	4.0
76.0	25505	117.5	0.12135	311.9	8.50	22.9	1.3598	217.5	639.8	217.49	10.5	280.6	-1.9	10.3
77.0	25999	122.2	0.12865	320.8	9.55	21.2	1.3263	219.9	661.4	219.93	10.6	260.1	1.8	10.5
77.7	26375	125.6	0.13437	328.1	10.41	20.0	1.3010	221.0	675.8	220.99	8.1	244.5	3.5	7.3
78.0	26506	126.7	0.13635	330.6	10.71	19.6	1.2923	221.4	680.8	221.35	7.4	236.8	4.0	6.2

STATION NATAL BR LAUNCH DATE 11681 LAUNCH TIME 1248 GMT ECC SONDE 3A1108X

79.0	26984	128.8	0.14383	338.4	11.73	18.2	1.2601	219.8	690.4	219.77	11.4	248.6	4.2	10.6
79.6	27236	129.1	0.14782	338.7	12.23	17.5	1.2430	220.0	699.1	220.05	14.9	261.6	2.2	14.7
80.0	27423	129.3	0.15077	339.0	12.60	17.0	1.2304	220.3	705.5	220.25	17.8	267.8	0.7	17.8
81.0	27939	131.6	0.15896	340.1	13.89	15.7	1.1959	223.4	731.9	223.36	14.8	271.1	-0.3	14.8
81.5	28238	131.8	0.16370	339.2	14.58	15.0	1.1761	224.4	745.0	224.39	21.2	269.6	0.1	21.2
82.0	28506	132.1	0.16795	338.5	15.20	14.4	1.1584	225.3	756.8	225.31	26.9	268.9	0.5	26.9
83.0	29131	127.0	0.17762	324.5	16.07	13.1	1.1173	226.0	780.0	226.05	36.9	270.5	-0.3	36.9
83.5	29442	125.0	0.18225	317.6	16.58	12.5	1.0969	227.3	795.2	227.32	34.5	272.2	-1.3	34.5
84.0	29770	122.9	0.18710	310.3	17.11	11.9	1.0755	228.7	811.0	228.65	32.0	274.2	-2.3	31.9
85.0	30484	119.0	0.19724	298.5	18.42	10.7	1.0294	230.1	841.2	230.08	33.4	272.6	-1.5	33.4
85.6	30940	115.3	0.20342	288.5	19.11	10.0	1.0000	230.8	860.5	230.79	33.9	269.7	0.2	33.9
86.0	31287	112.5	0.20810	280.8	19.63	9.5	0.9777	231.3	875.1	231.34	34.3	267.5	1.5	34.2
87.0	32041	102.3	0.21753	254.6	19.94	8.5	0.9294	232.0	906.0	232.04	31.0	266.4	2.0	30.9
87.3	32454	97.5	0.22206	242.3	20.15	8.0	0.9031	232.4	923.8	232.42	999.9	999.9	999.9	999.9
88.0	33364	87.0	0.23203	215.4	20.60	7.0	0.8451	233.3	962.9	233.28	999.9	999.9	999.9	999.9

*** RECORDED INSTRUMENT HUMIDITIES ***
*** LESS THAN 20 PRCNT NOT LISTED ***

ORIGINAL PAGE IS
OF POOR QUALITY